10608083

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PALM INTRANET

Inventor Information for 10/608083

Inventor Name	City	State/Country
BRUNO, NICOLAS	REDMOND	WASHINGTON
CHAUDHURI, SURAJIT	REDMOND	WASHINGTON

Appln Info | Contents | Petition Info | Atty/Agent Info | Continuity/Reexam | Foreign D

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IEEE CNF	IEEE Conference Proceeding
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IEEE STD	IEEE Standard

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1. **Large join optimization on a hypercube multiprocessor**
Lin, E.T.; Omiecinski, E.R.; Yalamanchili, S.;
Knowledge and Data Engineering, IEEE Transactions on
Volume 6, Issue 2, April 1994 Page(s):304 - 315
Digital Object Identifier 10.1109/69.277773
AbstractPlus | Full Text: PDF(1180 KB) IEEE JNL
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2. **Parallel optimization of large join queries with set operators and aggrega environment supporting pipeline**
Spiliopoulou, M.; Hatzopoulos, M.; Cotronis, Y.;
Knowledge and Data Engineering, IEEE Transactions on
Volume 8, Issue 3, June 1996 Page(s):429 - 445
Digital Object Identifier 10.1109/69.506710
AbstractPlus | References | Full Text: PDF(1580 KB) IEEE JNL
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3. **Optimizing queries with foreign functions in a distributed environment**
Tsai, P.S.M.; Chen, A.L.P.;
Knowledge and Data Engineering, IEEE Transactions on
Volume 14, Issue 4, July-Aug. 2002 Page(s):809 - 824
Digital Object Identifier 10.1109/TKDE.2002.1019215
AbstractPlus | References | Full Text: PDF(457 KB) IEEE JNL
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4. **Bayesian retrieval in associative memories with storage errors**
Sommer, F.T.; Dayan, P.;
Neural Networks, IEEE Transactions on
Volume 9, Issue 4, July 1998 Page(s):705 - 713
Digital Object Identifier 10.1109/72.701183
AbstractPlus | References | Full Text: PDF(256 KB) IEEE JNL
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IET CNF	IET Conference Proceeding
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1. **Stochastic gradient adaptation under general error criteria**
Douglas, S.C.; Meng, T.H.-Y.;
Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Si(
IEEE Transactions on]
Volume 42, Issue 6, June 1994 Page(s):1335 - 1351
Digital Object Identifier 10.1109/78.286951
AbstractPlus | Full Text: PDF(1456 KB) **IEEE JNL**
Rights and Permissions

2. **A maximum-likelihood surface estimator for dense range data**
Whitaker, R.T.; Gregor, J.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on
Volume 24, Issue 10, Oct. 2002 Page(s):1372 - 1387
Digital Object Identifier 10.1109/TPAMI.2002.1039208
AbstractPlus | References | Full Text: PDF(2510 KB) **IEEE JNL**
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Results for "(((query<in>metadata) <and> (expressions<in>metadata))<and> (estimate..." e-mail
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IET JNL	IET Journal or Magazine
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IEEE STD	IEEE Standard

view selected items Select All Deselect All

1. **3D face pose discrimination using wavelets**
Motwani, M.C.; Qiang Ji;
Image Processing, 2001. Proceedings. 2001 International Conference on
Volume 1, 7-10 Oct. 2001 Page(s):1050 - 1053 vol.1
Digital Object Identifier 10.1109/ICIP.2001.959229
AbstractPlus | Full Text: PDF(456 KB) IEEE CNF
Rights and Permissions

2. **Fragmenting relations horizontally using a knowledge-based approach**
Shin, D.-G.; Irani, K.B.;
Software Engineering, IEEE Transactions on
Volume 17, Issue 9, Sept. 1991 Page(s):872 - 883
Digital Object Identifier 10.1109/32.92906
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3. **Limitations and benefits of cooperative proxy caching**
Dykes, S.G.; Robbins, K.A.;
Selected Areas in Communications, IEEE Journal on
Volume 20, Issue 7, Sep 2002 Page(s):1290 - 1304
Digital Object Identifier 10.1109/JSAC.2002.801750
AbstractPlus | References | Full Text: PDF(376 KB) IEEE JNL
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4. **Efficient XML query processing in mediators**
Liang Huai Yang; Shiwei Tang; Dongqing Yang; Lijun Chen;
Database and Expert Systems Applications, 2001. Proceedings. 12th Internati
3-7 Sept. 2001 Page(s):27 - 31
Digital Object Identifier 10.1109/DEXA.2001.953037
AbstractPlus | Full Text: PDF(336 KB) IEEE CNF
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5. **Efficient expressions for completely and partly unsuccessful batched sea structured files**
Lang, S.D.; Manolopoulos, Y.;
Software Engineering, IEEE Transactions on
Volume 16, Issue 12, Dec. 1990 Page(s):1433 - 1435
Digital Object Identifier 10.1109/32.62451

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1. **A query evaluation strategy for deductive databases with presence of ne HLPN**
Barkaoui, K.; Majzi, Y.;
Systems, Man, and Cybernetics, 1997. 'Computational Cybernetics and Simul International Conference on
Volume 3, 12-15 Oct. 1997 Page(s):2386 - 2391 vol.3
Digital Object Identifier 10.1109/ICSMC.1997.635284
AbstractPlus | Full Text: PDF(536 KB) **IEEE CNF**
Rights and Permissions

2. **The query clustering problem: a set partitioning approach**
Gopal, R.D.; Ramesh, R.;
Knowledge and Data Engineering, IEEE Transactions on
Volume 7, Issue 6, Dec. 1995 Page(s):885 - 899
Digital Object Identifier 10.1109/69.476495
AbstractPlus | References | Full Text: PDF(1648 KB) **IEEE JNL**
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3. **User defined aggregates in object-relational systems**
Wang, H.; Zaniolo, C.;
Data Engineering, 2000. Proceedings. 16th International Conference on
29 Feb.-3 March 2000 Page(s):135 - 144
Digital Object Identifier 10.1109/ICDE.2000.839400
AbstractPlus | Full Text: PDF(116 KB) **IEEE CNF**
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4. **Query planning with limited source capabilities**
Li, C.; Chang, E.;
Data Engineering, 2000. Proceedings. 16th International Conference on
29 Feb.-3 March 2000 Page(s):401 - 412
Digital Object Identifier 10.1109/ICDE.2000.839440
AbstractPlus | Full Text: PDF(192 KB) **IEEE CNF**
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5. **Evaluation and optimization of the LIVING IN A LATTICE rule language**
Riedel, H.; Heuer, A.;
Data Engineering, 1996. Proceedings of the Twelfth International Conference
26 Feb.-1 March 1996 Page(s):318 - 325

Digital Object Identifier 10.1109/ICDE.1996.492179

AbstractPlus | Full Text: PDF(848 KB) **IEEE CNF**
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6. **A functional clustering method for optimal access to complex domains ir DBMS**
Cheiney, J.; Kiernan, G.;
Data Engineering, 1988. Proceedings. Fourth International Conference on
1-5 Feb. 1988 Page(s):394 - 401
Digital Object Identifier 10.1109/ICDE.1988.105483

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7. **Dynamic three-dimensional linear programming**
Eppstein, D.;
Foundations of Computer Science, 1991. Proceedings., 32nd Annual Symposi
1-4 Oct. 1991 Page(s):488 - 494
Digital Object Identifier 10.1109/SFCS.1991.185410

AbstractPlus | Full Text: PDF(592 KB) **IEEE CNF**
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8. **A model for optimizing deductive and object-oriented DB requests**
Cheiney, J.-P.; Lanzelotte, R.S.G.;
Data Engineering, 1992. Proceedings. Eighth International Conference on
2-3 Feb. 1992 Page(s):385 - 392
Digital Object Identifier 10.1109/ICDE.1992.213171

AbstractPlus | Full Text: PDF(652 KB) **IEEE CNF**
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1. **Antisampling for Estimation: An Overview**
Rowe, N.C.;
Software Engineering, IEEE Transactions on
Volume SE-11, Issue 10, Oct. 1985 Page(s):1081 - 1091
AbstractPlus | Full Text: PDF(4744 KB) **IEEE JNL**
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2. **Domains and active domains: what this distinction implies for the estima projection sizes in relational databases**
Ciaccia, P.; Maio, D.;
Knowledge and Data Engineering, IEEE Transactions on
Volume 7, Issue 4, Aug. 1995 Page(s):641 - 655
Digital Object Identifier 10.1109/69.404035
AbstractPlus | References | Full Text: PDF(1172 KB) **IEEE JNL**
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IET JNL	IET Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
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1. **SQL Test Suite goes online**
Sullivan, J.;
Computer
Volume 30, Issue 6, June 1997 Page(s):103, 105
Digital Object Identifier 10.1109/2.587557
AbstractPlus | Full Text: PDF(388 KB) **IEEE JNL**
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2. **System for database reports generating**
Tarassenko, P.F.; Bukharova, M.S.;
Science and Technology, 2001. KORUS '01. Proceedings. The Fifth Russian-K International Symposium on
Volume 1, 26 June-3 July 2001 Page(s):84 - 88 vol.1
Digital Object Identifier 10.1109/KORUS.2001.975063
AbstractPlus | Full Text: PDF(455 KB) **IEEE CNF**
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3. **Domain reduction dependencies: A new type of dependency for statistica security**
Hansen, S.C.; Unger, E.A.;
Computer Security Applications Conference, 1991. Proceedings., Seventh Anr
2-6 Dec. 1991 Page(s):178 - 186
Digital Object Identifier 10.1109/CSAC.1991.213007
AbstractPlus | Full Text: PDF(680 KB) **IEEE CNF**
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4. **An extended memoryless inference control model: partial-table level sup**
Hansen, S.C.; Unger, E.A.;
Applied Computing, 1991., [Proceedings of the 1991] Symposium on
3-5 April 1991 Page(s):142 - 149
Digital Object Identifier 10.1109/SOAC.1991.143866
AbstractPlus | Full Text: PDF(508 KB) **IEEE CNF**
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Thu, 3 May 2007, 9:15:56 AM EST

Edit an existing query or compose a new query in the Search Query Display.

Select a search number (#) to:

- Add a query to the Search Query Display
- Combine search queries using AND, OR, or NOT
- Delete a search
- Run a search

Search Query Display

[redacted]

Recent Search Queries

#1	(((optimizing<in>metadata) <and> (query<in>metadata)) <and> (estimating<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#2	(((optimizing<in>metadata) <and> (query<in>metadata)) <and> (estimating<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#3	(((conditional<in>metadata) <and> (expressions<in>metadata))<and> (optimize<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#4	(((query<in>metadata) <and> (expressions<in>metadata)) <and> (estimated<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#5	((query<in>metadata) <and> (optimize<in>metadata))<and> (recursively<in>metadata)
#6	(((recursively<in>metadata) <and> (query<in>metadata)) <and> (plan<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#7	(((recursive<in>metadata) <and> (query<in>metadata)) <and> (optimize<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#8	(((recursive<in>metadata) <and> (query<in>metadata)) <and> (optimize<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#9	(((recursive<in>metadata) <and> (query<in>metadata)) <and> (optimize<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#10	(((estimated<in>metadata) <and> (query<in>metadata)) <and> (statistics<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#11	(((statistics<in>metadata) <and> (query<in>metadata)) <and> (tables<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#12	(((statistics<in>metadata) <and> (query<in>metadata)) <and> (tables<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)

attribute of R, and Q an SQL query that contains $R.A$ in the SELECT clause. SIT($R.A|Q$) is the statistic for attribute A on the result of the executing query expression Q. Q is called the generating query expression of SIT ($R.A|Q$). This definition can be extended for multi-attribute statistics. Furthermore, the definition can be used as the basis for extending the CREATE STATISTICS statement in SQL where instead of specifying the table name of the query, more general query expression such as a table valued expression can be used.

is now US patent # 6,947,927 RL 1/19/2006

In U.S. Patent Application Serial No. 10/191,822, incorporated herein by reference in its entirety, the concept of SITs was introduced. A particular method of adapting a prior art query optimizer to access and utilize a preexisting set of SITs for cost estimation was described in detail in this application, which method is summarized here briefly as background information.

Referring to Figure 2, the query optimizer examines an input query and generates a query execution plan that most efficiently returns the results sought by the query in terms of cost. The cost estimation module and its imbedded cardinality estimation module can be modified to utilize statistics on query expressions, or intermediate tables, to improve the accuracy of cardinality estimates.

In general, the use of SITs is enabled by implementing a wrapper (shown in phantom in Figure 2) on top of the original cardinality estimation module of the RDBMS. During the optimization of a single query, the wrapper will be called many times, once for each different query sub-plan enumerated by the optimizer. Each time the query optimizer invokes the modified cardinality estimation module with a query plan, this input plan is transformed by the wrapper into another one that exploits SITs. The

cardinality estimation module uses the input plan to arrive at a potentially more accurate cardinality estimation that is returned to the query optimizer. The transformed query plan is thus a temporary structure used by the modified cardinality and is not used for query execution.

is now US patent # 6,947,927

According to the embodiment described in application serial number 10/191,822, filed 1/19/2006 the transformed plan that is passed to the cardinality estimation module exploits applicable SITs to enable a potentially more accurate cardinality estimate. The original cardinality estimation module requires little or no modification to accept the transformed plan as input. The transformation of plans is performed efficiently, which is important because the transformation will be used for several sub-plans for a single query optimization.

In general, there will be no SIT that matches a given plan exactly. Instead, several SITs might be used for to some (perhaps overlapping) portions of the input plan. The embodiment described in application serial number 10/191,822 is now US patent # 6,947,927 integrates SITs with cardinality estimation routines by transforming the input plan into an equivalent one that exploits SITs as much as possible. The transformation step is based on a greedy procedure that selects which SITs to apply at each iteration, so that the number of independence assumptions during the estimation for the transformed query plan is minimized. Identifying whether or not a SIT is applicable to a given plan leverages materialized view matching techniques as can be seen in the following example.

In the query shown in Figure 3(a) $R \triangleright\!\triangleleft S$ and $R \triangleright\!\triangleleft T$ are (skewed) foreign-key joins. Only a few tuples in S and T verify predicates $\sigma_{S.a<10}(S)$ and $\sigma_{T.b>20}(T)$ and most tuples in R join precisely with these tuples in S and T. In the absence of SITs,

Therefore error values must be estimated using efficient and coarse mechanisms. Existing information such as system catalogs or characteristics of the input query can be used but not additional information created specifically for such purpose.

IS NOW US patent # 6,947,927 1/19/2006

Application serial number 10/191,822 introduced an error function, *nInd*, that is simple and intuitive, and uses the fact that the independence assumption is the main source of errors during selectivity estimation. The overall error of a decomposition is defined as $S = Sel_{R1}(P_1|Q_1) \cdot \ldots \cdot Sel_{Rn}(P_n|Q_n)$ when approximated, respectively, using $\mathcal{H}_{R1}(A_1|Q'_1), \ldots, \mathcal{H}_{Rn}(A_n|Q'_n)$ $(Q'_i \subseteq Q_i)$, as the total number of predicate independence assumptions during the approximation, normalized by the maximum number of independence assumptions in the decomposition (to get a value between 0 and 1). In symbols, this error function is as follows:

$$\text{nInd}(\{Sel_R(P_i|Q_i), \mathcal{H}_R(A_i|Q'_i)\}) = \frac{\sum_i |P_i| \cdot |Q_i - Q'_i|}{\sum_i |P_i| \cdot |Q_i|}$$

Each term in the numerator represents the fact that Pi and $Q_i - Q'_i$ are independent with respect to Q_i, and therefore the number of predicate independent assumptions is $|Pi| \cdot |Q_i - Q'_i|$. In turn, each term in the denominator represents the maximum number of independence assumptions when $Q'_i = \emptyset$, i.e $|P_i| \cdot |Q_i|$. As a very simple example, consider $S = Sel_R(R.a<10, R.b>50)$ and decomposition $S = Sel_R(R.a<10|R.b>50) \cdot Sel_R(R.b>50)$. If base table histograms $H(R.a)$ and $H(R.b)$ are used, the error using *nInd* is $\frac{1 \cdot (1-0) + 1 \cdot (0-0)}{1 \cdot 1 + 1 \cdot 0} = 1/1 = 1$, i.e., one out of one independence assumptions (between

Patents

Patents **1 - 10** on **optimizing query database tuples decomposing**. (**0.75** seconds)

Apparatus and method for **decomposing database** queries for **database** management system including ...
US Pat. 5742806 - Filed Jan 31, 1994 - Sun Microsystems, Inc.
ROWID,15,4) can be of ORACLE for KSR (**Database** Note #21) evaluated using ROWID
... **Query** decomposition is done by making a number of 35 3.1 **Decomposing** ...

Exploitation of uniqueness properties using a 1-tuple condition for the optimization of SQL queries
US Pat. 5615361 - Filed Feb 7, 1995 - International Business Machines Corporation
Description of Related Art 15 Computer systems incorporating Relational **database**
Management System (RDBMS) software using a Structured **Query** Language (SQL) ...

Apparatus and method for **decomposing database** queries for **database** management system including ...
US Pat. 6289334 - Filed Jan 31, 1997 - Sun Microsystems, Inc.
3.1 **Decomposing** queries into subqueries We plan to build a **query** decomposer module
... FILEID,i) is true for **tuples** in the ith group of files for table t. ...

Exploitation of subsumption in **optimizing** scalar subqueries
US Pat. 6339768 - Filed Aug 13, 1998 - International Business Machines Corporation
Description of Related Art Computer systems incorporating Relational **database**
Management System (RDBMS) software using a Structured **Query** Language (SQL) ...

Storing fragmented XML data into a relational **database** by **decomposing** XML documents with ...
US Pat. 6643633 - Filed Jan 31, 2002 - International Business Machines Corporation
The rows are formally called **tuples**. A **database** will typically have many physical
... Thus, there is a need for an improved technique of **decomposing** an XML ...

Method for converting relational data into XML
US Pat. 6785673 - Filed Dec 28, 2001 - AT&T Corp.
The resulting **tuples** are sorted by the XML element in which they occur, ...
algorithm for **decomposing** an RXL view **query** into an optimal set of SQL queries. ...

System and methodology for join enumeration in a memory-constrained environment
US Pat. 6516310 - Filed Dec 6, 2000 - Sybase, Inc.
... Transactions on **Database** Systems, 1(3): 223-241, September 1976) that recursively
breaks up a calculus (QUEL) **query** into smaller pieces by **decomposing** ...

Method of generating attribute cardinality maps
US Pat. 6865567 - Filed Jan 19, 2000
A complete set of glossary is found in many undergraduate **database** text books,
including [Elmasri and Navathe, 1994], pp 137-177. 2.1 **Query** Optimization: An ...

Method and apparatus for **database query** decomposition
US Pat. 6816854 - Filed Jun 8, 2001 - Sun Microsystems, Inc.
Section 2 (of this **database** note) describes our **query** decomposition approach in
... This is mainly viewed as an OLTP-oriented technique, aimed at **optimizing** ...

Set containment join operation in an object/relational **database** management system
US Pat. 6728694 - Filed Apr 17, 2000 - NCR Corporation
Next, the algorithm 50 proceeds to the probing phase, where the **tuples** of Rsig and
... During the final verification phase, the **tuples** referred to in the (...

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Result Page: 1 2 **Next**

Patents

Patents **11** - **19** on **optimizing query database tuples decomposing**. (**0.05** seconds)

Calibration of logical cost formulae for queries in a heterogeneous DBMS using synthetic **database**
US Pat. 5412806 - Filed Aug 20, 1992 - Hewlett-Packard Company
Component2 is the cost of processing each of the selected **tuples**. ... responsibility for **decomposing** and executing the **query** over the participating dbmss. ...

Automated **query** optimization method using both global and parallel local optimizations for ...
US Pat. 4769772 - Filed Feb 28, 1985 - Honeywell Bull, Inc.
Work has been done on **decomposing** the IF-THEN- ELSE-ENDIF control construct as described in "Transaction Optimization in a Distributed **Database** Testbed ...

Generating one or more XML documents from a single SQL **query**
US Pat. 6636845 - Filed Jan 31, 2002 - International Business Machines Corporation
The rows are formally called **tuples**. A **database** will typically have many physical ... Thus, there is a need for an improved technique of **decomposing** an XML ...

Generating one or more XML documents from a relational **database** using XPath data model
US Pat. 7174327 - Filed Jan 31, 2002 - International Business Machines Corporation
The rows are formally called **tuples**. A **database** will typically have many physical ... Thus, there is a need for an improved technique of **decomposing** an XML ...

Method of performing a parallel relational **database query** in a multiprocessor environment ...
US Pat. 5765146 - Filed Nov 4, 1993 - International Business Machines Corporation
Chen et al., "Schema Integration and **Query** Decomposition in a Distributed **Database** System Using a Knowledge Based Approach", Information Modelling and ...

View composition in a data base management system
US Pat. 5276870 - Filed Oct 9, 1990 - Hewlett-Packard Company
When the v.ew was translated into an equivalent **query** that re- node immediatel above the view nod^ th are ob. . ij • • i t_ **tuples** of the materialized view ...

Semantic optimization of **query** order requirements using order detection by normalization in a ...
US Pat. 5619692 - Filed Feb 17, 1995 - International Business Machines Corporation
(RELATIONAL 45 **DATABASE** WRITINGS 1989-1991, CJ Date with Hugh Darwen, Chapter 10: The Role of Functional Dependencies in **Query** Decomposition for a ...

XML document stored as column data
US Pat. 6721727 - Filed Nov 29, 2000 - International Business Machines Corporation
The rows are formally called **tuples**. A **database** will typically have many 59 ... Thus, there is a need for an improved technique of **decomposing** an XML ...

Reducing **query** response time using tree balancing
US Pat. 5694591 - Filed May 2, 1995 - Hewlett Packard Company

Rather, according to the invention they should be For a given **query** tree, mere are many ... When a **database** is queried, the optimizer struc- so result of ...

Patents

Patents **1 - 8** on **optimizing query recursive selectivity value**. (**0.30** seconds)

Query optimization with switch predicates
US Pat. 6581055 - Filed Sep 11, 2000 - Oracle International Corporation
By enabling more accurate estimates of the **selectivity** of a **query**, ... environment or **value** of a **query** variable), in which case no switch predicate need be ...

Database system with methods for performing cost-based estimates using spline histograms
US Pat. 6012054 - Filed Oct 23, 1997 - Sybase, Inc.
The Optimizer is responsible for **optimizing** the **query** tree. ... **value**—an extra floatingpoint **value** per cell—allows a more accurate **selectivity** 35 estimate, ...

Selectivity estimation for processing SQL queries containing having clauses
US Pat. 6778976 - Filed Jan 10, 2001 - International Business Machines Corporation
The preferred embodiment approach obtains **selectivity** estimates for each possible ... In the context of the **value** for P(hurdle, g), the convolution method ...

Learning from empirical results in **query** optimization
US Pat. 6763359 - Filed Jun 6, 2001 - International Business Machines Corporation
By comparing the actual **selectivity** of the predicate with the estimated ... actual **value** (act) computed from the monitor information: est=actual=stats*adj; ...

Database system with methodology for distributing **query** optimization effort over large search spaces
US Pat. 6807546 - Filed May 8, 2003 - Sybase, Inc.
The first advantage is 50 that any **value** can be chosen for the quota. As described above by Lohmen (in "System for Adapting **Query** Optimization Effort to ...

Database system with methodology providing improved cost estimates for **query** strategies
US Pat. 6353826 - Filed Aug 27, 1999 - Sybase, Inc.
The Optimizer is responsible for **optimizing** the **query** tree. ... by most RDBMS vendors to do **selectivity** estimates, which eventually lead to cost estimates. ...

Query optimization by predicate move-around
US Pat. 5659725 - Filed Jun 6, 1994 - Lucent Technologies Inc.
Unlike the magic-set transformation, moved across **query** blocks, ... redundant predicates can lead to incorrect **selectivity** esti- within the same 1 minute, ...

System and methodology for join enumeration in a memory-constrained environment
US Pat. 6516310 - Filed Dec 6, 2000 - Sybase, Inc.
"Join enumeration" is a **recursive** process which itera- tively adds another ... based on index selection; Alter predicate placement based on **selectivity**; ...

optimizing query recursive selectivity value | Search Patents

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Patents

Patents **1 - 3** on **optimizing query recursive estimating approximate**. (**0.24** seconds)

Database system with methods for performing cost-based estimates using spline histograms
US Pat. 6012054 - Filed Oct 23, 1997 - Sybase, Inc.
The Optimizer is responsible for **optimizing** the **query** tree. The Optimizer performs a cost-based analysis for formulating a **query** execution plan. ...

Selectivity estimation for processing SQL queries containing having clauses
US Pat. 6778976 - Filed Jan 10, 2001 - International Business Machines Corporation
The preferred embodiment provides a mechanism for **estimating** the ... to carry out the **approximate** computation of P(hurdle, g) is to **approximate** the ...

Single-pass low-storage arbitrary probabilistic location estimation for massive data sets
US Pat. 7076487 - Filed Apr 11, 2002 - The Penn State Research Foundation
[I] Agrawal et al., System and Method For **Query** Optimization Using Quantile Values of a ... New Methods for **Estimating** Tail Probabilities and Extreme Value ...

Patents

Patents **1 - 3** on **optimizing query recursive estimation tuples**. (**0.40** seconds)

Method of generating attribute cardinality maps

US Pat. 6865567 - Filed Jan 19, 2000

Constant number of records per block: The number of **tuples** in each file block is the same ... In order to increase the **estimation** accuracy, some modem **query** ...

System and methodology for generating bushy trees using a left-deep tree join enumeration algorithm

US Pat. 7184998 - Filed Jun 20, 2003 - Sybase, Inc.

The optimizer is responsible for **optimizing** algorithm in a relational database system. The methodology the **query** tree. The optimizer performs a cost-based ...

Database system with methods for performing cost-based estimates using spline histograms

US Pat. 6012054 - Filed Oct 23, 1997 - Sybase, Inc.

The Optimizer is responsible for **optimizing** the **query** tree. ... an estimate assumes that there is uniform distribution of **tuples** within a given cell. ...

Patents

Patents **1 - 7** on **optimizing query recursive estimation**. (**0.27** seconds)

System and methodology for generating bushy trees using a left-deep tree join enumeration algorithm
US Pat. 7184998 - Filed Jun 20, 2003 - Sybase, Inc.
The optimizer is responsible for **optimizing** algorithm in a relational database system. The methodology the **query** tree. The optimizer performs a cost-based ...

Database system with methodology for distributing **query** optimization effort over large search spaces
US Pat. 6807546 - Filed May 8, 2003 - Sybase, Inc.
As described above by Lohmen (in "System for Adapting **Query** Optimization Effort to ... This is because errors in selectivity **estimation** are compounded. ...

Method of generating attribute cardinality maps
US Pat. 6865567 - Filed Jan 19, 2000
This **recursive** process is carried out until a stopping condition, ... In order to increase the **estimation** accuracy, some modem **query** optimizers incorporate ...

Database system with methods for performing cost-based estimates using spline histograms
US Pat. 6012054 - Filed Oct 23, 1997 - Sybase, Inc.
The Optimizer is responsible for **optimizing** the **query** tree. ... the incorrect **estimation** of 45 distribution, runs the risk of selecting a poor **query** plan. ...

System and methodology for join enumeration in a memory-constrained environment
US Pat. 6516310 - Filed Dec 6, 2000 - Sybase, Inc.
"Join enumeration" is a **recursive** process which itera- tively adds ... The first goal is to ensure that the chosen join strategy for any **query** is one which ...

System and method for dynamic data-mining and on-line communication of customized information
US Pat. 6266668 - Filed Aug 4, 1999 - Dryken Technologies, Inc.
When prediction/**estimation** is important, the neural network training algorithm ... (using all 3 levels—a **recursive** definition) link to the page in question. ...

Single-pass low-storage arbitrary probabilistic location **estimation** for massive data sets
US Pat. 7076487 - Filed Apr 11, 2002 - The Penn State Research Foundation
[I] Agrawal et al., System and Method For **Query** Optimization Using Quantile ... Low-Storage Quantile **Estimation**, Computational Statistics, 10(4), 311-325. ...

Patents

Patents **1 - 9** on **optimizing query recursive statistics**. (**0.28** seconds)

Iterative dynamic programming system for **query** optimization with bounded complexity ...
US Pat. 5671403 - Filed Dec 30, 1994 - International Business Machines Corporation
389-394, May, 1992) discuss the cost 15 efficient man **optimizing** over the ...
identification of the "**Recursive Query** Answering with Non-Horn Clauses", ...

System and method for generating uniqueness information for **optimizing** an SQL **query**
US Pat. 5890148 - Filed Dec 8, 1997 - International Business Machines Corporation
and system-held **statistics** on SQL **query** are determined using a **recursive** process
called the data to be accessed (the size of the table, the number of the ...

Evaluation strategy for execution of SQL queries involving recursion and table queues
US Pat. 5546570 - Filed Feb 17, 1995 - International Business Machines Corporation
and system held **statistics** on the data to be accessed (the size of the table,
... The DAG represents a **query** execution plan of a non-**recursive** SQL **query**. ...

Computer program product for enabling a computer to generate uniqueness information for ...
US Pat. 5696960 - Filed Jun 2, 1995 - International Business Machines Corporation
This step considers both the available access paths SQL **query** are determined
using a **recursive** process called (indexes, sequential reads, etc. ...

Query optimization by sub-plan memoization
US Pat. 6850925 - Filed May 15, 2001 - Microsoft Corporation
US B2 5 when executed combine to produce the desired **query** output. initially ...
the execution plan 106 is made up of a at the start of **optimizing** a **query**, ...

Query optimization with switch predicates
US Pat. 6581055 - Filed Sep 11, 2000 - Oracle International Corporation
The optimization of a **query** expanded in the manner described herein may be dynamic
or **recursive**. In other words, for a given **query** a first set of execution ...

System and method for filtering a document stream
US Pat. 6105023 - Filed Aug 18, 1997 - Dataware Technologies, Inc.
Document filtering is performed by using **recursive** inference to propagate ...
Document **statistics** are calculated once, when the **query** net 12 is added to the ...

Providing XML cursor support on an XML repository built on top of a relational database system
US Pat. 7013311 - Filed Sep 5, 2003 - International Business Machines Corporation
In addition, for each **recursive** iteration, a current a transaction will not be
... A replace operation for an XML node or sub-tree an XML **query** defined in a ...

Method and system for parallel processing of database queries
US Pat. 6968335 - Filed Nov 14, 2002 - Sesint, Inc.
In effect, this **recursive** partitioning is analogous to a binary search, ...

may increase as more effort can be expended in **optimizing** the code of the ...

optimizing query recursive statistics | Search Patents

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10/608,083 EIC/STIC Search

```
Set     Items   Description
S1     262601   DATABASE? OR DATABANK? OR DATA()(BASE? OR BANK? OR FILE? OR
              REPOSITOR? OR WAREHOUSE?) OR DB OR RDB OR OODB OR ODBC OR DB-
             MS OR RDBMS
S2       7687   S1(7N)TABLE?
S3    2227874   FIELD? OR NODE? ? OR TUPLE? OR PROPERT? OR COLUMN? OR ATTR-
             IBUT?
S4       3462   S3(5N)(APPROXIMAT? OR (ROUGH? OR CLOSE? OR ROUND OR BALLPA-
             RK?)(2N)(ESTIMAT? OR COMPUT? OR DETERMIN? OR TOTAL? OR TABULA-
             T? OR CALCULAT? OR FIGUR? OR FORMULAT?))
S5      19076   QUERY? OR QUERIE? ?
S6       1676   S5(5N)(SELECT? OR SEL)
S7        277   S5(5N)(SEPARAT? OR DISASSOCIAT? OR DIS()ASSOCIAT? OR ABSTR-
             ACTED OR PARTITION? OR DIVID?)
S8        887   S5(5N)(PLAN??? ? OR CHART? OR OPTIMI? OR PRIORIT? OR ARRAN-
             G?)
S9      84596   S3(5N)(COMPUT? OR DETERMIN? OR TOTAL? OR TABULAT? OR CALCU-
             LAT? OR ESTIMAT? OR FIGUR? OR ASSESS? OR ASCRIB? OR CREAT? OR
             FORMULAT?)
S10        25   CARTESIAN(3N)PRODUCT? ?
S11         3   (MORGAN OR DEMORGAN OR DE()MORGAN)(3N)(TRANSFORM? OR CONVE-
             R? OR ALTER? OR MODIF? OR FORMULAT?)
S12      7687   S1 AND S2
S13         4   S12 AND S4 AND S8
S14       463   S4 AND S9
S15         4   S2 AND RELATIONAL AND S14
S16         0   S15 NOT S13
S17      1114   S2 AND RELATIONAL
S18         8   S17 AND (CONDITION? OR TERM? ? OR RULE? ?)(2N)(MET OR MEET-
             ??? OR AGREE? OR EVEN OR CONGRUEN?)
S19         0   S18 AND S7
S20         1   S7 AND (CONDITION? OR TERM? ? OR RULE? ?)(2N)(MET OR MEET?-
             ?? OR AGREE? OR EVEN OR CONGRUEN?)
S21        13   S17 AND S7
S22         6   S21 AND S8
S23        22   S18:S22
S24         1   S14 AND S7
S25         1   S14 AND S10:S11
S26         5   S9 AND S10
S27        26   S22:S26
S28        25   S27 NOT S13
S29        24   S28 NOT (PR>2003 OR PR=2004:2007)
S30        41   S14 AND (TUPLE? OR ATTRIBUT?)
S31         1   S30 AND S10
S32         5   S30 AND S2
S33         4   S32 NOT S27
S34         1   S33 NOT S13
S35         1   S7 AND S6 AND S10
S36         0   S35 NOT S13
File 350:Derwent WPIX 1963-2006/UD=200724
        (c) 2007 The Thomson Corporation
File 347:JAPIO Dec 1976-2006/Dec(Updated 070403)
        (c) 2007 JPO & JAPIO
```

```
Set     Items   Description
S1     262920   DATABASE? OR DATABANK? OR DATA()(BASE? OR BANK? OR FILE? OR
              REPOSITOR? OR WAREHOUSE?) OR DB OR RDB OR OODB OR ODBC OR DB-
             MS OR RDBMS
S2      20670   S1(7N)TABLE?
S3    1456674   FIELD? OR NODE? ? OR TUPLE? OR PROPERT? OR COLUMN? OR ATTR-
             IBUT?
S4      18690   S3(5N)(APPROXIMAT? OR (ROUGH? OR CLOSE? OR ROUND OR BALLPA-
             RK?)(2N)(ESTIMAT? OR COMPUT? OR DETERMIN? OR TOTAL? OR TABULA-
             T? OR CALCULAT? OR FIGUR? OR FORMULAT?))
S5      51284   QUERY? OR QUERIE? ?
S6       3726   S5(5N)(SELECT? OR SEL)
S7       1437   S5(5N)(SEPARAT? OR DISASSOCIAT? OR DIS()ASSOCIAT? OR ABSTR-
             ACTED OR PARTITION? OR DIVID?)
S8       1969   S5(5N)(PLAN??? ? OR CHART? OR OPTIMI? OR PRIORIT? OR ARRAN-
             G?)
S9       9580   CARTESIAN(2N)PRODUCT? ? OR CARTESIAN?
S10        74   (MORGAN OR DEMORGAN OR DE()MORGAN)(3N)(TRANSFORM? OR ALTER?
              OR CONVER? OR MODIF? OR FORMULAT?)
S11        12   S1(100N)S2(100N)S3:S4(100N)S5:S6(100N)S8(100N)S9:S10
S12         8   S2(100N)S3(100N)S5(100N)S8(100N)S9:S10
S13         0   S12 NOT S11
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         (c) 2007 European Patent Office
File 349:PCT FULLTEXT 1979-2007/UB=20070412UT=20070305
         (c) 2007 WIPO/Thomson
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Set     Items   Description
S1    1179345   DATABASE? OR DATABANK? OR DATA()(BASE? OR BANK? OR FILE? OR
               REPOSITOR? OR WAREHOUSE?) OR DB OR RDB OR OODB OR ODBC OR DB-
               MS OR RDBMS
S2       5449   S1(7N)TABLE?
S3   13333076   FIELD? OR NODE? ? OR TUPLE? OR PROPERT? OR COLUMN? OR ATTR-
               IBUT?
S4     140448   S3(5N)(APPROXIMAT? OR (ROUGH? OR CLOSE? OR ROUND OR BALLPA-
               RK?)(2N)(ESTIMAT? OR COMPUT? OR DETERMIN? OR TOTAL? OR TABULA-
               T? OR CALCULAT? OR FIGUR? OR FORMULAT?))
S5     143570   QUERY? OR QUERIE? ?
S6       3942   S5(5N)(SELECT? OR SEL)
S7       1417   S5(5N)(SEPARAT? OR DISASSOCIAT? OR DIS()ASSOCIAT? OR ABSTR-
               ACTED OR PARTITION? OR DIVID?)
S8      10933   S5(5N)(PLAN??? ? OR CHART? OR OPTIMI? OR PRIORIT? OR ARRAN-
               G?)
S9    1005670   S3(5N)(COMPUT? OR DETERMIN? OR TOTAL? OR TABULAT? OR CALCU-
               LAT? OR ESTIMAT? OR FIGUR? OR ASSESS? OR ASCRIB? OR CREAT? OR
               FORMULAT?)
S10     44180   CARTESIAN(3N)PRODUCT? ? OR CARTESIAN?
S11       230   (MORGAN OR DEMORGAN OR DE()MORGAN)(3N)(TRANSFORM? OR ALTER?
               OR CONVER? OR MODIF? OR FORMULAT?)
S12     56817   S1:S2 AND RELATIONAL?
S13        75   S12 AND S4
S14         8   S13 AND S8
S15        77   S12 AND S7 AND S8
S16        17   S15 AND SEPARAT?(3N)(QUERY? OR QUERIE? ?)
S17         0   S16 AND S10:S11
S18       167   S12 AND S10:S11
S19       130   S18 AND RELATIONAL?(2N)DATABASE?
S20         0   S19 AND S4 AND S8
S21        43   S19 AND S8
S22        14   S21 AND (TUPLE? OR ATTRIBUT?)
S23        14   S22 NOT S14
S24         7   RD  (unique items)
S25         0   S12 AND S8 AND S11
S26        29   S21 NOT S22
S27         0   S26 AND S7
S28         2   S26 AND S6
S29         7   S6 AND S5 AND S8 AND S10
S30        58   S15 NOT (S14 OR S16 OR S22 OR S28)
S31         2   S30 AND S10:S11
S32         0   S30 AND S6 AND S10
S33         7   S29 AND S12
S34         1   S33 NOT (S14 OR S16 OR S22 OR S28)
File   2:INSPEC 1898-2007/Apr W2
         (c) 2007 Institution of Electrical Engineers
File   6:NTIS 1964-2007/Apr W2
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7. **Optimization of web newspaper layout in real time**
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9. **Optimizing path query performance: graph clustering strategies**
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12. **Partial deduction in disjunctive logic programming**
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Laboratory Automation & Information Management, Volume 33, Issue 1, June 1997, Page 66
Michel Cadot
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14. **Optimizing entity join queries when data transmission cost dominates**
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Pauray S. M. Tsai and Arbee L. P. Chen
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16. **A web-based decision support system for waste disposal and recycling**
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17. **A processing framework for object comprehensions**
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13. **Performing automatic exams**
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15. **Implementing a generalized tool for network monitoring**
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Kim Hyeokman, Lee Sukho and Kim Hyoung-Joo
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M. De Marsicoi, L. Cinque and S. Levialdi
Abstract | Abstract + References | PDF (17745 K)

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pub-date > 1996 and pub-date < 2003 and TITLE-ABSTR-KEY(query) and TITLE-ABSTR-KEY(statistics)

RESULT LIST
Approximately **141** results found in the Worldwide database for:
database in the title AND **optimizing** in the title or abstract
(Results are sorted by date of upload in database)

11 **METHOD FOR OPTIMIZING POST PROCESS OF SUB SEQUENCE MATCHING IN TIME SERIES DATABASE**
Inventor: CHOI WAN (KR); KIM SANG UK (KR); (+2) **Applicant:** KOREA ELECTRONICS TELECOMM (KR)
EC: **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **KR20030030514** - 2003-04-18

12 **System and method of optimizing database queries in two or more dimensions**
Inventor: SMARTT BRIAN E (US) **Applicant:**
EC: G06F17/30L **IPC:** ***G06F17/30***; **G06F17/30**
Publication info: **US2006184519** - 2006-08-17

13 **COMPUTER SYSTEM, COMPUTER, DATABASE ACCESS METHOD, AND DATABASE SYSTEM**
Inventor: NEMOTO NAOICHI; NISHIKAWA NORIFUMI; (+1) **Applicant:** HITACHI LTD
EC: G06F17/30S8R; G06F17/30S4P3T3; (+1) **IPC:** ***G06F12/00; G06F3/06***; **G06F12/00** (+1)
Publication info: **JP2006127418** - 2006-05-18

14 **System and method for the optimization of database acess in data base networks**
Inventor: BOUKOBZA ERIC (IL) **Applicant:**
EC: **IPC:** ***G06F17/30***; **G06F17/30**
Publication info: **US2006167883** - 2006-07-27

15 **Optimizing database queries using query execution plans derived from automatic summary table determining cost based queries**
Inventor: LEUNG TING YU (US); SIMMEN DAVID E (US); (+1) **Applicant:** IBM (US)
EC: **IPC:** ***G06F17/30***; **G06F17/30**
Publication info: **US7080062** - 2006-07-18

16 **Database System and Methodology for Generalized Order Optimization**
Inventor: YOUNG-LAI MATTHEW (CA); NICA ANISOARA (CA) **Applicant:** IANYWHERE SOLUTIONS INC (US)
EC: G06F17/30H6 **IPC:** ***G06F17/30***; **G06F17/30**
Publication info: **US2006136368** - 2006-06-22

17 **Technique for determining an optimal number of tasks in a parallel database loading system with memory constraints**
Inventor: GARTH JOHN MARLAND (US); RUDDY JAMES ALAN (US); (+1) **Applicant:** IBM (US)
EC: G06F17/30S2P; G06F9/46A2M **IPC:** ***G06F9/46; G06F9/50; G06F17/30*** (+2)
Publication info: **US7058952** - 2006-06-06

18 **DATABASE MANAGEMENT SYSTEM, METHOD FOR OPTIMIZING PAGE ARRANGEMENT IN THE SYSTEM, AND DATABASE MANAGEMENT PROGRAM**
Inventor: IDE SHUNICHI **Applicant:** TOKYO SHIBAURA ELECTRIC CO; TOSHIBA SOLUTIONS CORP
EC: **IPC:** ***G06F12/00; G06F12/08***; **G06F12/00** (+1)
Publication info: **JP2006106895** - 2006-04-20

19 **Database tuning advisor**
Inventor: RAIZMAN ALEXANDER (US); MARATHE ARUNPRASAD P (US); (+9) **Applicant:** MICROSOFT CORP (US)

EC: G06F17/30B

IPC: ***G06F17/30***; **G06F17/30**

Publication info: **US2006085484** - 2006-04-20

20 Database optimizing method

Inventor: XIE NING BI (CN)

Applicant: HUAWEI TECH CO LTD (CN)

EC:

IPC: ***G06F17/30***; **G06F17/30**

Publication info: **CN1744079** - 2006-03-08

RESULT LIST
Approximately **141** results found in the Worldwide database for:
database in the title AND **optimizing** in the title or abstract
(Results are sorted by date of upload in database)

21 **DATABASE USEFUL FOR CONFIGURING AND/OR OPTIMIZING SYSTEM, AND METHOD FOR GENERATING THE DATABASE**
Inventor: SOERENSEN MOELLER GERT LYKKE; JENSEN CLAUS ERIK
Applicant: ARRAY TECHNOLOGY APS
EC: G06F17/30S1R; G06F17/50
IPC: ***G06N5/04; G06F17/30; G06F17/50*** (+3)
Publication info: **JP2006059364** - 2006-03-02

22 **Apparatus and method for optimizing a union database query**
Inventor: SANTOSUOSSO JOHN M (US)
Applicant: IBM (US)
EC: G06F17/30S4P3T4; G06F17/30S4P4P3
IPC: ***G06F17/30; G06F7/00***; **G06F7/00** (+1)
Publication info: **US2006064407** - 2006-03-23

23 **Method and apparatus for optimizing execution of database queries containing user-defined functions**
Inventor: DAY PAUL R (US); MURAS BRIAN R (US)
Applicant: IBM (US)
EC: G06F17/30H6
IPC: ***G06F17/30***; **G06F17/30**
Publication info: **US2006026116** - 2006-02-02

24 **Arrangement and method for optimizing performance and data safety in a highly available database system**
Inventor: PARKKINEN JARMO (FI); WOLSKI ANTONI (FI)
Applicant:
EC:
IPC: ***G06F17/00***; **G06F17/00**; (IPC1-7): G06F17/00
Publication info: **US2005283522** - 2005-12-22

25 **SYSTEM AND METHOD FOR OPTIMIZING ROW LEVEL DATABASE SECURITY**
Inventor: CHANDER GIRSH; HAMILTON JAMES R; (+3)
Applicant: MICROSOFT CORP
EC: G06F21/00N9A2D
IPC: ***G06F21/24; G06F17/30; G06F21/00*** (+4)
Publication info: **JP2005228312** - 2005-08-25

26 **System and method for performing a query in a computer system to retrieve data from a database**
Inventor: HRLE NAMIK (DE); SCHUETZNER JOHANNES (DE)
Applicant: IBM (US)
EC: G06F17/30T2P9; G06F17/30T2P4P
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US2005065921** - 2005-03-24

27 **Database management program, a database managing method and an apparatus therefor**
Inventor: SEKI YUMIKO (JP); KAMEDA MASAMI (JP); (+2)
Applicant: HITACHI LTD (US)
EC:
IPC: ***G06F7/00***; **G06F7/00**; (IPC1-7): G06F7/00
Publication info: **US2005033779** - 2005-02-10

28 **Optimizing execution of a database query by using the partitioning schema of a partitioned object to select a subset of partitions from another partitioned object**
Inventor: SHANKAR SHRIKANTH (US); SHUKLA VIKRAM (US)
Applicant:
EC:
IPC: ***G06F7/00***; **G06F7/00**; (IPC1-7): G06F7/00
Publication info: **US2005251511** - 2005-11-10

29 **Database System with Methodology for Automated Determination and Selection of Optimal Indexes**
Inventor: FARRAR DANIEL J (CA); NICA ANISOARA
Applicant: SYBASE INC (US)

(CA)
EC: IPC: ***G06F17/00***; **G06F17/00**; (IPC1-7): G06F17/00

Publication info: **US2005203940** - 2005-09-15

30 **Cost-based optimizer for an XML data repository within a database**

Inventor: GE FEI (US); CHANDRASEKAR SIVASANKARAN (US); (+3)
Applicant: ORACLE INT CORP (US)

EC: IPC: ***G06F17/00***; **G06F17/00**; (IPC1-7): G06F17/00

Publication info: **US2005240624** - 2005-10-27

RESULT LIST
Approximately **141** results found in the Worldwide database for:
database in the title AND **optimizing** in the title or abstract
(Results are sorted by date of upload in database)

31 **Method, system and program for optimizing compression of a workload processed by a database management system**
Inventor: LIGHTSTONE SAM S (CA); LOHMAN GUY M (US); (+4)
Applicant: IBM (US)
EC: G06F17/30S4P3T4
IPC: ***G06F7/00***; **G06F7/00**; (IPC1-7): G06F7/00
Publication info: **US2005192978** - 2005-09-01

32 **SYSTEM AND METHOD FOR THE OPTIMIZATION OF DATABASE ACESS IN DATA BASE NETWORKS**
Inventor: BOUKOBZA ERIC (IL); NISSENBOIM YORAM (IL)
Applicant: ACTIVE BASE LTD (IL); BOUKOBZA ERIC (IL); (+1)
EC: H04L29/08N9A; G06F17/30B; (+1)
IPC: ***G06F17/30; H04L29/06; H04L29/14*** (+4)
Publication info: **WO2004036344** - 2004-04-29

33 **Method and system for optimizing database performance**
Inventor: GUPTA SANJAY (US)
Applicant: IBM (US)
EC: G06F17/30B
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2005049992** - 2005-03-03

34 **DATABASE MANAGING SYSTEM AND QUERY OPTIMIZING METHOD**
Inventor: UYAMA KIMITAKA; FUJITSUKA KINYA; (+2)
Applicant: NTT DATA CORP
EC:
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **JP2005018430** - 2005-01-20

35 **Methods and systems for optimizing queries through dynamic and autonomous database schema analysis**
Inventor: BOLSIUS ROGER (US); MALANEY KEVIN (US)
Applicant: ORACLE INT CORP (US)
EC: G06F17/30S4P3T6; G06F17/30S4P8A
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2004243555** - 2004-12-02

36 **Maintenance assisting apparatus for complex system e.g. avionics, marine equipment, missiles or rockets, comprises system for setting up hierarchical database representative of system to be maintained**
Inventor: TEYCHENE CHRISTIAN
Applicant: EADS LAUNCH VEHICLES (FR)
EC:
IPC: ***B64F5/00***; **B64F5/00**; (IPC1-7): G06F17/60 (+1)
Publication info: **FR2854970** - 2004-11-19

37 **METHOD OF PRODUCING A DATABASE HAVING INPUT FROM A SCANNED DOCUMENT**
Inventor: JANSONS GIRTS (CA); TIGWELL ROB (CA)
Applicant: JANSONS GIRTS (CA); TIGWELL ROB (CA)
EC: G06F17/30M1E; G06F17/30T; (+1)
IPC: ***G06F17/30; G06K9/20***; **G06F17/30** (+3)
Publication info: **CA2427468** - 2004-11-02

38 **Method for predicting quality characteristic of polymer uses database containing molecular mass distribution and quality characteristic for different polymerization conditions**
Inventor: HECKER MARTIN (DE); MAEHNER CHRISTIAN (DE)
Applicant: BAYER AG (DE)
EC: G01N33/44
IPC: ***G01N33/44***; **G01N33/44**; (IPC1-7): G01N33/44
Publication info: **DE10305579** - 2004-08-19

39 **Method, system, and program for optimizing database query execution**
Inventor: ALLEN TERRY DENNIS (US); DESAI PARAMESH S (US); (+3)
Applicant: IBM (US)
EC: G06F17/30S2P9
IPC: ***G06F7/00; G06F17/30***; **G06F7/00** (+2)

Publication info: **US2004148273** - 2004-07-29

40 OPTIMIZING DATABASE QUERY PERFORMANCE BY DERIVING QUERY PREDICATES

Inventor: MALKEMUS TIMOTHY RAY (US); KOO FRED (CA)

Applicant: IBM (US)

EC: G06F17/30S4P3T2

IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30

Publication info: **CA2416368** - 2003-10-16

RESULT LIST
Approximately **126** results found in the Worldwide database for:
database in the title AND **optimizing** in the title or abstract
(Results are sorted by date of upload in database)

41 **Fast and robust optimization of complex database queries**
Inventor: LIN EILEEN TIEN (US); LOHMAN GUY MARING (US) **Applicant:**
EC: G06F17/30S4P3T5J; G06F17/30S4P3T5S **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US2004122798** - 2004-06-24

42 **System and method of optimizing database queries in two or more dimensions**
Inventor: SMARTT BRIAN E (US) **Applicant:**
EC: G06F17/30M1S **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2003187867** - 2003-10-02

43 **SYSTEM FOR ASSIGNING DATABASE TABLE PRIMARY KEY**
Inventor: SEKIHARA YASUO **Applicant:** CANON KK
EC: **IPC:** ***G06F17/30; G06F12/00***; **G06F17/30** (+3)
Publication info: **JP2004133573** - 2004-04-30

44 **Distinct sampling system and a method of distinct sampling for a database**
Inventor: GIBBONS PHILLIP B (US) **Applicant:** LUCENT TECHNOLOGIES INC (US)
EC: G06F17/30S4P8A; G06F17/30S4P3T3; (+1) **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US2004049492** - 2004-03-11

45 **Apparatus and method for refreshing a database query**
Inventor: CARLSON DAVID GLENN (US); KATHMANN KEVIN JAMES (US) **Applicant:** IBM (US)
EC: G06F17/30S4P3T5; G06F17/30S4P3T6 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US2003229621** - 2003-12-11

46 **METHOD OF FACILITATING DATABASE ACCESS**
Inventor: SHRINGERI SANJATHA; HSU JOY **Applicant:** INFORMATICA CORP (US)
EC: G06F17/30S4P4P3J; G06F17/30S4P7R **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **WO02103575** - 2002-12-27

47 **DATABASE SYSTEM AND ITS MATCHING CONTROL METHOD**
Inventor: IDOGAWA AKIRA; TAKEGAWA HIROSHI; (+4) **Applicant:** RICOH KK
EC: **IPC:** ***G06F17/30; G06F12/00***; **G06F17/30** (+3)
Publication info: **JP2004013228** - 2004-01-15

48 **MOVING PICTURE ENCODING CONTROLLER AND MOVING PICTURE ENCODING CONTROL DATABASE CREATING APPARATUS**
Inventor: MORI MASASHI; NAKAOKA KUNIO; (+2) **Applicant:** MITSUBISHI ELECTRIC CORP
EC: H04N7/26A4P; H04N7/26A6W **IPC:** ***H04N7/32; G03C1/00; G06T1/00*** (+8)
Publication info: **JP2003274408** - 2003-09-26

49 **Method and mechanism for extending native optimization in a database system**
Inventor: AGARWAL NIPUN (US); DAS DINESH (US); (+4) **Applicant:**
EC: G06F17/30S4P3T6 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2003009446** - 2003-01-09

50 **Storage apparatus acquiring static information related to database management system**
Inventor: MOGI KAZUHIKO (JP); OEDA TAKASHI (JP); **Applicant:**

(+1)

EC: G06F17/30B

IPC: ***G06F12/08; G06F3/06; G06F12/00*** (+6)

Publication info: US2003093442 - 2003-05-15

RESULT LIST
Approximately **126** results found in the Worldwide database for:
database in the title AND **optimizing** in the title or abstract
(Results are sorted by date of upload in database)

51 DATABASE MANAGING SYSTEM
Inventor: HIRAOKA TAKUYA; IKEDA TETSUYA; (+2) **Applicant:** RICOH KK
EC: **IPC:** ***G06F12/00***; **G06F12/00**; (IPC1-7): G06F12/00
Publication info: **JP2003248603** - 2003-09-05

52 Database optimization apparatus and method
Inventor: ARNOLD JEREMY ALAN (US); BARSNESS ERIC LAWRENCE (US); (+2) **Applicant:** IBM (US)
EC: G06F17/30B **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2003154216** - 2003-08-14

53 Database management program, a database managing method and an apparatus therefor
Inventor: SEKI YUMIKO (JP); KAMEDA MASAMI (JP); (+2) **Applicant:**
EC: G06F17/30B **IPC:** ***G06F11/34; G06F7/00; G06F12/00*** (+6)
Publication info: **US2002116364** - 2002-08-22

54 Method and apparatus for optimizing a security database for a self-service checkout system
Inventor: TAYLOR BRIAN (US); ALLARD JOHN (US) **Applicant:**
EC: G07G1/00C2D; G07G1/14B **IPC:** ***G07G1/00; G07G1/14***; **G07G1/00** (+3)
Publication info: **US2003126019** - 2003-07-03

55 Methods and apparatus for database transaction queuing
Inventor: ROBISON TERRY (US) **Applicant:**
EC: G06F17/30B **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2003115168** - 2003-06-19

56 DATABASE CONSTITUTING METHOD AND DATABASE CONSTITUTING DEVICE
Inventor: ASADA KAZUSHIGE **Applicant:** RICOH KK
EC: **IPC:** ***G06F17/30; G06F12/00***; **G06F17/30** (+3)
Publication info: **JP2003140935** - 2003-05-16

57 Integrated database system and program storage medium
Inventor: USHIJIMA KAZUTOMO (JP); NISHIZAWA ITARU (JP); (+1) **Applicant:**
EC: G06F17/30S4P3T6; G06F19/00C9 **IPC:** ***G06F17/30; G06F19/00***; **G06F17/30** (+2)
Publication info: **US2002120618** - 2002-08-29

58 SINGLE-PATIENT DRUG TRIALS USED WITH ACCUMULATED DATABASE
Inventor: REITBERG DONALD P (US) **Applicant:** OPT E SCRIP INC (US); REITBERG DONALD P (US)
EC: G06F19/00M1; G06F19/00C; (+2) **IPC:** ***G06F19/00; G06Q10/00***; **G06F19/00** (+4)
Publication info: **WO0206826** - 2002-01-24

59 Single-patient drug trials used with accumulated database: flowchart
Inventor: REITBERG DONALD P (US) **Applicant:**
EC: G06F19/00M3M; A61K49/00H; (+1) **IPC:** ***A61K49/00; G06F19/00***; **A61K49/00** (+3)
Publication info: **US2002192159** - 2002-12-19

60 Single-patient drug trials used with accumulated database: risk of habituation
Inventor: REITBERG DONALD P (US) **Applicant:**

EC: G06F19/00C; G06F19/00M1; (+2) **IPC:** ***G06F19/00; G06Q10/00***; **G06F19/00** (+4)

Publication info: **US2002032581** - 2002-03-14

RESULT LIST
Approximately **126** results found in the Worldwide database for:
database in the title AND **optimizing** in the title or abstract
(Results are sorted by date of upload in database)

61 **Single-patient drug trials used with accumulated database: genomic markers**
Inventor: REITBERG DONALD P (US) **Applicant:**
EC: G06F19/00C; G06F19/00M1; (+1) **IPC:** ***G06F19/00; G06Q10/00***; **G06F19/00** (+4)
Publication info: **US2002038310** - 2002-03-28

62 **Optimizing updatable scrollable cursors in database systems**
Inventor: GORALWALLA IQBAL A (CA); WINER MICHAEL J (CA); (+2) **Applicant:**
EC: G06F17/30B **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2002042788** - 2002-04-11

63 **System and method of optimizing queries in a database**
Inventor: HARVEY RICHARD H (US) **Applicant:** COMPUTER ASS THINK INC (US)
EC: G06F17/30S; G06F17/30S4P3T2 **IPC:** ***G06F12/00; G06F17/30***; **G06F12/00** (+2)
Publication info: **CN1505789** - 2004-06-16

64 **Method and system for high performance transaction processing using a relational database management system**
Inventor: CAMERON DUCAN (US); HUSTED JOHN (US); (+3) **Applicant:**
EC: G06F17/30S8R; G06F17/30B **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2002174136** - 2002-11-21

65 **Method for optimizing the performance of a database**
Inventor: DELO JOHN C (US) **Applicant:**
EC: G06F9/445N; G06F17/30B **IPC:** ***G06F9/445; G06F17/30***; **G06F9/445** (+2)
Publication info: **US2001032199** - 2001-10-18

66 **Optimizing database entries**
Inventor: GRIFFIN JAMES (GB); TAN SAY BENG (SG) **Applicant:**
EC: G06F17/30W1F **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2002062308** - 2002-05-23

67 **METHOD AND DEVICE FOR MANAGING DATABASE**
Inventor: ASADA KAZUSHIGE; TAKEGAWA HIROSHI; (+3) **Applicant:** RICOH KK
EC: **IPC:** ***G06F17/30; G06F12/00***; **G06F17/30** (+3)
Publication info: **JP2002149450** - 2002-05-24

68 **METHODS FOR COLLIGATION AND LINKING OF RELATIONS IN A DATABASE USEFUL FOR CONFIGURING AND/OR OPTIMIZING A SYSTEM**
Inventor: MOELLER GERT LYKKE SOERENSEN (DK); JENSEN CLAUS ERIK (DK) **Applicant:** ARRAY TECHNOLOGY APS (DK); MOELLER GERT LYKKE SOERENSEN (DK); (+1)
EC: G06F17/50 **IPC:** ***G06F17/50***; **G06F17/50**; (IPC1-7): G06F17/30
Publication info: **WO0122278** - 2001-03-29

69 **Query transformation and simplification for group by queries with rollup/grouping sets in relational database management systems**
Inventor: LEUNG TING YU (US); WANG HAIXUN (US) **Applicant:** IBM (US)
EC: G06F17/30S4P3T2; G06F17/30S4P3T5 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30 (+1)
Publication info: **US6574623** - 2003-06-03

70 **Method and system for managing documents in a system using at least**

one database

Inventor: DAVID ANJA (DE)

Applicant: WINRECHTE GBMH (DE)

EC: G06F17/30F

IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30 (+1)

Publication info: **US6801902** - 2004-10-05

RESULT LIST
3 results found in the Worldwide database for:
optimizing in the title AND **query and estimate** in the title or abstract
(Results are sorted by date of upload in database)

1 **Method, system and program for optimizing compression of a workload processed by a database management system**
Inventor: LIGHTSTONE SAM S (CA); LOHMAN GUY M (US); (+4)
Applicant: IBM (US)
EC: G06F17/30S4P3T4
IPC: ***G06F7/00***; **G06F7/00**; (IPC1-7): G06F7/00
Publication info: **US2005192978** - 2005-09-01

2 **Distinct sampling system and a method of distinct sampling for a database**
Inventor: GIBBONS PHILLIP B (US)
Applicant: LUCENT TECHNOLOGIES INC (US)
EC: G06F17/30S4P8A; G06F17/30S4P3T3; (+1)
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US2004049492** - 2004-03-11

3 **OPTIMIZING DEVICE HAVING NEURAL NETWORK EVALUATING DEVICE**
Inventor: LAKSHMI SEETHA M; ZHOU SHAOYU
Applicant: INFORMIX SOFTWARE INC
EC: G06F17/30S4P3T5S
IPC: ***G06F15/18; G06F12/00; G06F17/30*** (+8)
Publication info: **JP11175566** - 1999-07-02

RESULT LIST
2 results found in the Worldwide database for:
estimating in the title AND **query and optimizing** in the title or abstract
(Results are sorted by date of upload in database)

1 **Sampling method for estimating co-occurrence counts**
Inventor: MEEK CHRISTOPHER A (US); KADIE CARL M (US)
Applicant: MICROSOFT CORP (US)
EC: G06F17/30S4P8A
IPC: ***G06F17/30***; **G06F17/30**
Publication info: **US2006184572** - 2006-08-17

2 **METHOD AND DEVICE FOR ESTIMATING NUMBER OF SINGULRA VALUES OF DATA BASE**
Inventor: WEIPENG YAN
Applicant: INFORMIX SOFTWARE INC
EC: G06F17/30S4P3T5S; G06F17/30S4P8A
IPC: ***G06F12/00; G06F17/30***; **G06F12/00** (+3)
Publication info: **JP11134366** - 1999-05-21

RESULT LIST
1 result found in the Worldwide database for:
estimating in the title AND **optimizing and database** in the title or abstract
(Results are sorted by date of upload in database)

1 **Sampling method for estimating co-occurrence counts**

Inventor: MEEK CHRISTOPHER A (US); KADIE CARL M (US)

Applicant: MICROSOFT CORP (US)

EC: G06F17/30S4P8A

IPC: ***G06F17/30***; **G06F17/30**

Publication info: **US2006184572** - 2006-08-17

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
3 results found in the Worldwide database for:
optimize in the title AND **query** in the title or abstract
(Results are sorted by date of upload in database)

1 **System and method to optimize database access by synchronizing state based on data access patterns**
Inventor: HILL JUSTIN H (US); HOGSTROM MATT R (US); (+2)
Applicant: IBM (US)
EC:
IPC: ***G06F17/30***; **G06F17/30**
Publication info: **US2006230019** - 2006-10-12

2 **Systems and methods that optimize row level database security**
Inventor: COMEAU ALAIN C (US); CHANDER GIRISH (US); (+4)
Applicant: MICROSOFT CORP (US)
EC: G06F21/00N9A2D
IPC: ***G06F21/24; G06F17/30; G06F21/00*** (+3)
Publication info: **EP1564620** - 2005-08-17

3 **Method and system for generating SQL joins to optimize performance**
Inventor: FOCAZIO ROBYN L (US); MARAPPAN KUMAR (US); (+2)
Applicant: IBM (US)
EC: G06F17/30S8R; G06F17/30S4P3T2
IPC: ***G06F7/00***; **G06F7/00**; (IPC1-7): G06F7/00
Publication info: **US2005091199** - 2005-04-28

RESULT LIST
6 results found in the Worldwide database for:
query in the title AND **plans and estimate** in the title or abstract
(Results are sorted by date of upload in database)

1 **Query optimization by sub-plan memoization**
Inventor: CHAUDHURI SURAJIT (US); ABOULNAGA ASHRAF I (US)
Applicant: MICROSOFT CORP (US)
EC: G06F17/30S4P3T5S
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2005033730** - 2005-02-10

2 **Estimating the compilation time of a query optimizer**
Inventor: GAO DENGFENG (US); ILYAS IHAB F (US); (+3)
Applicant:
EC: G06F17/30S4P3T6
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US2005071331** - 2005-03-31

3 **Use of statistic on view in query optimization**
Inventor: GALINDO-LEGARIA CESAR A (US); JOSHI MILIND M (US)
Applicant: MICROSOFT CORP (US)
EC: G06F17/30S4P3T5; G06F17/30S4P8A
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US2005050041** - 2005-03-03

4 **Database system with methodology providing improved cost estimates for query strategies**
Inventor: SEPUTIS EDWIN ANTHONY (US)
Applicant: SYBASE INC (US)
EC: G06F17/30S4P3T5; G06F17/30S4P3T5S
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6353826** - 2002-03-05

5 **Identifying essential statistics for query optimization for databases**
Inventor: CHAUDHURI SURAJIT (US); NARASAYYA VIVEK (US)
Applicant: MICROSOFT CORP (US)
EC: G06F17/30S4P3T5; G06F17/30S4P3T5S; (+1)
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6363371** - 2002-03-26

6 **System for adapting query optimization effort to expected execution time**
Inventor: LOHMAN GUY M (US); ONO KIYOSHI (US); (+1)
Applicant: IBM (US)
EC: G06F17/30S4P3T5; G06F17/30S4P3T6
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F15/40
Publication info: **US5301317** - 1994-04-05

RESULT LIST
20 results found in the Worldwide database for:
relational in the title AND **optimizing** in the title or abstract
(Results are sorted by date of upload in database)

1 **Methods and systems for optimizing searches within relational databases having hierarchical data**
Inventor: GOH SWEEFEN (US); MIHAILA GEORGE A (US); (+1) **Applicant:** IBM (US)
EC: **IPC:** ***G06F7/00***; **G06F7/00**
Publication info: **US2007005612** - 2007-01-04

2 **Method, computer program product, and system of optimized data translation from relational data storage to hierarchical structure**
Inventor: ZHOU NIANJUN (US); MIHAILA GEORGE A (US); (+2) **Applicant:** IBM (US)
EC: G06F17/30S8R **IPC:** ***G06F17/00; G06F17/30***; **G06F17/00** (+2)
Publication info: **US2005138073** - 2005-06-23

3 **Method and system for high performance transaction processing using a relational database management system**
Inventor: CAMERON DUCAN (US); HUSTED JOHN (US); (+3) **Applicant:**
EC: G06F17/30S8R; G06F17/30B **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2002174136** - 2002-11-21

4 **Query transformation and simplification for group by queries with rollup/grouping sets in relational database management systems**
Inventor: LEUNG TING YU (US); WANG HAIXUN (US) **Applicant:** IBM (US)
EC: G06F17/30S4P3T2; G06F17/30S4P3T5 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30 (+1)
Publication info: **US6574623** - 2003-06-03

5 **CUBE INDICES FOR RELATIONAL DATABASE MANAGEMENT SYSTEMS**
Inventor: COCHRANE ROBERTA JO (US); LAPIS GEORGE (US); (+4) **Applicant:**
EC: G06F17/30S8R; G06F17/30S4P3T3 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2002138460** - 2002-09-26

6 **Query optimization by transparently altering properties of relational tables using materialized views**
Inventor: COCHRANE ROBERTA JO (US); LAPIS GEORGE (US); (+6) **Applicant:** IBM (US)
EC: G06F17/30S8R; G06F17/30S4P3T3 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6339769** - 2002-01-15

7 **Optimization of queries using relational algebraic theta-semijoin operator**
Inventor: SRIVASTAVA DIVESH (US); STUCKEY PETER J (AU); (+1) **Applicant:** LUCENT TECHNOLOGIES INC (US)
EC: G06F17/30S4P3T2; G06F17/30S4P3T5 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6032144** - 2000-02-29

8 **Method for Detecting and Optimizing Relational Queries with Encoding/Decoding Tables**
Inventor: LOHMAN GUY M (US); SCHIEFER BERNHARD (CA); (+1) **Applicant:** IBM (US)
EC: G06F17/30S1R **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **CA2168287** - 1996-10-01

9 **Method to help in optimizing a query from a relational data base management system**

Inventor: VACHEY ERIC (FR)

Applicant: BULL SA (FR)

EC: G06F17/30S4P3T6

IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F9/00 (+1)

Publication info: **US5630120** - 1997-05-13

10 METHOD FOR OPTIMIZATION OF QUESTION OF RELATIONAL DATABASE

Inventor: SURAJITSUTO CHIYAUDEYURI

Applicant: HEWLETT PACKARD CO

EC: G06F17/30S4P3T2; G06F17/30S4P3T5

IPC: ***G06F12/00; G06F17/30***; **G06F12/00** (+3)

Publication info: **JP8055138** - 1996-02-27

RESULT LIST
20 results found in the Worldwide database for:
relational in the title AND **optimizing** in the title or abstract
(Results are sorted by date of upload in database)

11 **Optimization of SQL queries using early-out join transformations of column-bound relational tables**
Inventor: PIRAHESH MIR H (US); LEUNG TING Y (US); (+3) **Applicant:** IBM (US)
EC: G06F17/30S4P3T2 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US5548758** - 1996-08-20

12 **System for optimizing correlated SQL queries in a relational database using magic decorrelation**
Inventor: LEUNG TING Y (US); PIRAHESH MIR H (US); (+1) **Applicant:** IBM (US)
EC: G06F17/30S4P3T5; G06F17/30S4P3T6 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US5548755** - 1996-08-20

13 **METHOD AND EQUIPMENT FOR OPTIMIZING INQUIRY IN RELATIONAL DATABASE SYSTEM WITH EXTERNAL FUNCTION**
Inventor: SURAJITO CHIYAUDOFURI; KIYUSEOKU SHIN **Applicant:** HEWLETT PACKARD CO
EC: G06F17/30S4P3T5 **IPC:** ***G06F12/00; G06F17/30***; **G06F12/00** (+3)
Publication info: **JP7141236** - 1995-06-02

14 **Method to help in optimizing a query from a relational data base management system, and resultant method of syntactical analysis**
Inventor: CADOT MICHEL (FR) **Applicant:** BULL SA (FR)
EC: G06F17/30S4F5; G06F17/30S4P3T2; (+1) **IPC:** ***G06F12/00; G06F17/30***; **G06F12/00** (+3)
Publication info: **US5495605** - 1996-02-27

15 **Computer automated system and method for optimizing the processing of a query in a relational database system by merging subqueries with the query**
Inventor: CHENG JOSEPHINE M-K (US); FINKELSTEIN SHELDON J (US); (+3) **Applicant:** IBM (US)
EC: G06F17/30S4P3T1; G06F17/30S4P3T5J **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F15/403
Publication info: **US5367675** - 1994-11-22

16 **HIGH SPEED RELATIONAL DATA BASE PROCESSOR**
Inventor: WIMER TED L (US); JOPSON CHARLES (US) **Applicant:** EXTENDED SYST INC (US)
EC: G06F17/30S8R **IPC:** ***G06F9/38; G06F9/30; G06F13/00*** (+6)
Publication info: **WO8912277** - 1989-12-14

17 **SYSTEM FOR OPTIMIZING QUERY PROCESSING IN A RELATIONAL DATABASE**
Inventor: TSUCHIDA MASASHI (JP); OHMACHI KAZUHIKO (JP) **Applicant:** HITACHI LTD (JP)
EC: G06F17/30S4P3T5; G06F17/30S4P3T7 **IPC:** ***G06F12/00; G06F17/30***; **G06F12/00** (+3)
Publication info: **US5091852** - 1992-02-25

18 **OPTIMIZING SYSTEM FOR RELATIONAL DATA BASE**
Inventor: OKUDA HIROYUKI; KATO MASAMICHI **Applicant:** HITACHI LTD
EC: **IPC:** ***G06F12/00; G06F17/30***; **G06F12/00** (+3)
Publication info: **JP1042731** - 1989-02-15

19 **PARTIAL COMPILING SYSTEM FOR RELATIONAL DATA BASE CONTROL SYSTEM**
Inventor: YAMANE YASUO **Applicant:** FUJITSU LTD
EC: **IPC:** ***G06F9/46; G06F9/44; G06F9/45*** (+8)

Publication info: **JP62274433** - 1987-11-28

20 INQUIRY PROCESS OPTIMIZING METHOD IN RELATIONAL DATA BASE PROCESSING DEVICE

Inventor: SATO KAZUHIRO; FUKUSHIMA SHINICHI; (+1)

Applicant: HITACHI LTD

EC:

IPC: ***G06F12/00; G06F17/30***; **G06F12/00** (+2)

Publication info: **JP61052755** - 1986-03-15

RESULT LIST
13 results found in the Worldwide database for:
optimizing in the title AND **query and expression** in the title or abstract
(Results are sorted by date of upload in database)

1 **SYSTEM AND METHOD FOR OPTIMIZING XML QUERY LANGUAGE AND VIEW DEFINITION LANGUAGE**
Inventor: BRUNDAGE MICHAEL L; KIMBALL ANDREW E **Applicant:** MICROSOFT CORP
EC: G06F17/30X7P3 **IPC:** ***G06F9/45; G06F12/00; G06F17/30*** (+4)
Publication info: **KR20050000328** - 2005-01-03

2 **Apparatus and method for optimizing a union database query**
Inventor: SANTOSUOSSO JOHN M (US) **Applicant:** IBM (US)
EC: G06F17/30S4P3T4; G06F17/30S4P4P3 **IPC:** ***G06F17/30; G06F7/00***; **G06F7/00** (+1)
Publication info: **US2006064407** - 2006-03-23

3 **Method of optimizing SQL queries where a predicate matches nullable operands**
Inventor: LEUNG TING YU (US); TRUONG TUONG CHANH (US) **Applicant:** IBM (US)
EC: **IPC:** ***G06F7/00***; **G06F7/00**
Publication info: **US6996557** - 2006-02-07

4 **System and method for optimizing queries using materialized views and fast view matching**
Inventor: LARSON PER-AKE (US); GOLDSTEIN JONATHAN (US) **Applicant:** MICROSOFT CORP (US)
EC: G06F17/30S4P3T3; G06F17/30S4P3T1 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US2005091208** - 2005-04-28

5 **System and method for optimizing queries on views defined by conditional expressions having mutually exclusive conditions**
Inventor: FINLAY IAN RICHARD (CA); ZUZARTE CALISTO PAUL (CA) **Applicant:** IBM (US)
EC: G06F17/30S4P3T1; G06F17/30S4P3T2 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US2004220896** - 2004-11-04

6 **OPTIMIZING DATABASE QUERY PERFORMANCE BY DERIVING QUERY PREDICATES**
Inventor: MALKEMUS TIMOTHY RAY (US); KOO FRED (CA) **Applicant:** IBM (US)
EC: G06F17/30S4P3T2 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **CA2416368** - 2003-10-16

7 **SELECTION OF MATERIALIZING VIEW ON THE BASIS OF COST FOR OPTIMIZING QUERY**
Inventor: GALINDO-LEGARIA CESAR A; JOSHI MILIND M **Applicant:** MICROSOFT CORP
EC: G06F17/30S4P3T3; G06F17/30S4P3T5 **IPC:** ***G06F12/00; G06F17/30***; **G06F12/00** (+3)
Publication info: **JP2002163290** - 2002-06-07

8 **System and method for optimizing the structure and display of complex data filters**
Inventor: MARUSAK SCOTT M (US) **Applicant:** SAS INST INC (US)
EC: G06F17/30S4F5; G06F17/30S4P3T4 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6470335** - 2002-10-22

9 **SYSTEM AND METHOD FOR OPTIMIZING DATABASE QUERIES**
Inventor: CELIS PEDRO; SHAK DIANA; (+2) **Applicant:** TANDEM COMPUTERS INC (US)
EC: G06F17/30S4P3T5 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **WO9826360** - 1998-06-18

10 **A method for identifying key information for optimizing an SQL query**

Inventor: BHARGAVA GAUTAM (US); GOEL PIYUSH (US); (+1)

Applicant: IBM (US)

EC: G06F17/30S4P3T2; G06F17/30S4P3T5

IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30

Publication info: **US5890148** - 1999-03-30

RESULT LIST
13 results found in the Worldwide database for:
optimizing in the title AND **query and expression** in the title or abstract
(Results are sorted by date of upload in database)

11 **System and method for optimizing database queries with improved performance enhancements**
Inventor: CELIS PEDRO (US); SHAK DIANA (US); (+2) **Applicant:** TANDEM COMPUTERS INC (US)
EC: G06F17/30S4P3T5 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6021405** - 2000-02-01

12 **System and methods for optimizing database queries**
Inventor: THAI LAM H (US) **Applicant:** BORLAND INT INC (US)
EC: G06F17/30S2P1; G06F17/30S4P4P7 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US5666528** - 1997-09-09

13 **Computer program product for enabling a computer to generate uniqueness information for optimizing an SQL query**
Inventor: BHARGAVA GAUTAM (US); GOEL PIYUSH (US); (+1) **Applicant:** IBM (US)
EC: G06F17/30S4P3T **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US5696960** - 1997-12-09

RESULT LIST
2 results found in the Worldwide database for:
decomposing in the title AND **query** in the title or abstract
(Results are sorted by date of upload in database)

1 **Storing fragmented XML data into a relational database by decomposing XML documents with application specific mappings**

Inventor: CHAU HOANG K (US); CHENG ISAAC KAM-CHAK (US); (+5)
Applicant: IBM (US)
EC: G06F17/30S8R
IPC: ***G06F7/00; G06F17/30***; **G06F7/00** (+2)

Publication info: **US2002133484** - 2002-09-19

2 **Apparatus and method for decomposing database queries for database management system including multiprocessor digital data processing system**

Inventor: REINER DAVID (US); MILLER JEFFREY M (US); (+1)
Applicant: SUN MICROSYSTEMS INC (US)
EC: G06F17/30S8R
IPC: ***G06F12/00; G06F15/00; G06F15/16*** (+7)

Publication info: **US6289334** - 2001-09-11

RESULT LIST
3 results found in the Worldwide database for:
tables and query in the title AND **optimizing** in the title or abstract
(Results are sorted by date of upload in database)

1 **Optimizing correlated queries using automatic summary tables**
Inventor: ZAHARIOUDAKIS MARKOS (US); PIRAHESH MIR HAMID (US); (+3)
Applicant: IBM (US)
EC: G06F17/30S4P3T3
IPC: ***G06F7/00; G06F17/30***; **G06F7/00** (+2)
Publication info: **US2003088558** - 2003-05-08

2 **Parallel query optimization strategies for replicated and partitioned tables**
Inventor: LEUNG TING YU (US); PIRAHESH MIR HAMID (US); (+2)
Applicant: IBM (US)
EC: G06F17/30N; G06F17/30S1R
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6625593** - 2003-09-23

3 **Query optimization by transparently altering properties of relational tables using materialized views**
Inventor: COCHRANE ROBERTA JO (US); LAPIS GEORGE (US); (+6)
Applicant: IBM (US)
EC: G06F17/30S8R; G06F17/30S4P3T3
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6339769** - 2002-01-15

RESULT LIST
3 results found in the Worldwide database for:
query and grouping in the title AND **optimizing** in the title or abstract
(Results are sorted by date of upload in database)

1 **Dynamic selection of optimal grouping sequence at runtime for grouping sets, rollup and cube operations in SQL query processing**
Inventor: ZHANG GUOGEN (US); LIN FEN-LING (US); (+4) **Applicant:** IBM (US)
EC: G06F17/30S4P3T2 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2005027690** - 2005-02-03

2 **Query transformation and simplification for group by queries with rollup/grouping sets in relational database management systems**
Inventor: LEUNG TING YU (US); WANG HAIXUN (US) **Applicant:** IBM (US)
EC: G06F17/30S4P3T2; G06F17/30S4P3T5 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30 (+1)
Publication info: **US6574623** - 2003-06-03

3 **Query simplification and optimization involving eliminating grouping column from group by operation corresponds to group by item that is constant**
Inventor: LEUNG TING YU (US); PIRAHESH MIR HAMID (US) **Applicant:** IBM (US)
EC: G06F17/30S4P3T2 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6339770** - 2002-01-15

RESULT LIST
11 results found in the Worldwide database for:
sql in the title AND **optimizing** in the title or abstract
(Results are sorted by date of upload in database)

1 **Method of optimizing SQL queries where a predicate matches nullable operands**
Inventor: LEUNG TING YU (US); TRUONG TUONG CHANH (US) **Applicant:** IBM (US)
EC: **IPC:** ***G06F7/00***; **G06F7/00**
Publication info: **US6996557** - 2006-02-07

2 **Dynamic selection of optimal grouping sequence at runtime for grouping sets, rollup and cube operations in SQL query processing**
Inventor: ZHANG GUOGEN (US); LIN FEN-LING (US); (+4) **Applicant:** IBM (US)
EC: G06F17/30S4P3T2 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2005027690** - 2005-02-03

3 **Optimization of SQL queries using filtering predicates**
Inventor: BEAVIN THOMAS A (US); MALONE PATRICK M (US); (+2) **Applicant:**
EC: G06F17/30S4P3T2 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US2002069193** - 2002-06-06

4 **A method for identifying key information for optimizing an SQL query**
Inventor: BHARGAVA GAUTAM (US); GOEL PIYUSH (US); (+1) **Applicant:** IBM (US)
EC: G06F17/30S4P3T2; G06F17/30S4P3T5 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US5890148** - 1999-03-30

5 **Optimization of SQL queries involving aggregate expressions using a plurality of local and global aggregation operations**
Inventor: RAMESH BHASHYAM (US); KRAUS TIMOTHY BRENT (US); (+1) **Applicant:** NCR CORP (US)
EC: G06F17/30S4P3P; G06F17/30S4P4P1A **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US5884299** - 1999-03-16

6 **System, method, and program for extending a SQL compiler for handling control statements packaged with SQL query statements**
Inventor: CHOW JYH-HERNG (US); FUH YOU-CHIN GENE (US); (+2) **Applicant:** IBM (US)
EC: G06F17/30S4F9P; G06F9/45A5; (+3) **IPC:** ***G06F9/45; G06F17/30***; **G06F9/45** (+2)
Publication info: **US5875334** - 1999-02-23

7 **Optimization of SQL queries using hash star join operations**
Inventor: PEDERSON DONALD RAYMOND (US); KOSTAMAA OLLI PEKKA (US) **Applicant:** NCR CORP (US)
EC: G06F17/30S8M; G06F17/30S4P3P; (+1) **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US5864842** - 1999-01-26

8 **Optimization of SQL queries using early-out join transformations of column-bound relational tables**
Inventor: PIRAHESH MIR H (US); LEUNG TING Y (US); (+3) **Applicant:** IBM (US)
EC: G06F17/30S4P3T2 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US5548758** - 1996-08-20

9 **Computer program product for enabling a computer to generate uniqueness information for optimizing an SQL query**
Inventor: BHARGAVA GAUTAM (US); GOEL PIYUSH (US); (+1) **Applicant:** IBM (US)

EC: G06F17/30S4P3T IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30

Publication info: **US5696960** - 1997-12-09

10 **System for optimizing correlated SQL queries in a relational database using magic decorrelation**

Inventor: LEUNG TING Y (US); PIRAHESH MIR H (US); (+1) **Applicant:** IBM (US)

EC: G06F17/30S4P3T5; G06F17/30S4P3T6 IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30

Publication info: **US5548755** - 1996-08-20

RESULT LIST
11 results found in the Worldwide database for:
sql in the title AND **optimizing** in the title or abstract
(Results are sorted by date of upload in database)

11 **Optimization of SQL queries using universal quantifiers, set intersection, and max/min aggregation in the presence of nullable columns**

Inventor: LEUNG TING Y (US); PIRAHESH MIR H (US); (+2) **Applicant:** IBM (US)

EC: G06F17/30S4P3T2; G06F17/30S4P3T5 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30

Publication info: **US5590324** - 1996-12-31

RESULT LIST
Approximately **141** results found in the Worldwide database for:
database in the title AND **optimizing** in the title or abstract
(Results are sorted by date of upload in database)

1 OPTIMIZING ACCESS TO A DATABASE BY UTILIZING A STAR JOIN

Inventor: AU GRACE (US); RAMESH BHASHYAM (IN); (+1) **Applicant:**

EC: **IPC:** ***G06F17/30***; **G06F17/30**

Publication info: **US2007083490** - 2007-04-12

2 OPTIMIZING ACCESS TO A DATABASE

Inventor: AU GRACE (US); RAMESH BHASHYAM (IN); (+1) **Applicant:**

EC: **IPC:** ***G06F17/30***; **G06F17/30**

Publication info: **US2007073647** - 2007-03-29

3 METHOD AND SYSTEM FOR OPTIMIZING USER DATABASE QUERIES

Inventor: RAMESH BHASHYAM (IN); WATZKE MICHAEL (US) **Applicant:**

EC: **IPC:** ***G06F17/30***; **G06F17/30**

Publication info: **US2007067262** - 2007-03-22

4 OPTIMIZED DATABASE COORDINATION AND SUPPLY CHAIN EFFICIENCY

Inventor: HULL JACKSON ROBIE (US); LAI CALBERT (US); (+3) **Applicant:** SITOA CORP (US); HULL JACKSON ROBIE (US); (+4)

EC: **IPC:** ***G06Q30/00***; **G06Q30/00**

Publication info: **WO2007021920** - 2007-02-22

5 OPTIMIZING DATABASE ACCESS FOR RECORD LINKAGE BY TILING THE SPACE OF RECORD PAIRS

Inventor: GIANG PHAN H (US); SANDILYA SATHYAKAMA (GB); (+2) **Applicant:** SIEMENS MEDICAL SOLUTIONS (US)

EC: **IPC:** ***G06F17/30***; **G06F17/30**

Publication info: **EP1730655** - 2006-12-13

6 Apparatus and method for optimizing a computer database query that Fetches n rows

Inventor: MURAS BRIAN R (US); NELSON ROBERT R (US); (+1) **Applicant:** IBM (US)

EC: **IPC:** ***G06F17/30***; **G06F17/30**

Publication info: **US2006259457** - 2006-11-16

7 SYSTEM AND METHOD FOR USING GRID INDEX FOR ENCODING LOCATION AND ESTIMATED ACCURACY VALUE OF COORDINATES VALUE FOR DATABASE ENTRY

Inventor: TOYAMA KENTARO; LOGAN RON **Applicant:** MICROSOFT CORP

EC: G06F17/30C; G06F17/30L; (+1) **IPC:** ***G09B29/00; G06F12/00; G06F17/30*** (+4)

Publication info: **KR20040095751** - 2004-11-15

8 CELL LIBRARY DATABASE CONSTRUCTING METHOD USING INPUT STATE DEPENDENCY ALGORITHM OPTIMIZING DATABASE SIZE AND MARGINAL DESIGN VERIFICATION

Inventor: KIM DU JIN (KR) **Applicant:** SAMSUNG ELECTRONICS CO LTD (KR)

EC: **IPC:** ***G06F17/50***; **G06F17/50**; (IPC1-7): G06F17/50

Publication info: **KR20050048422** - 2005-05-24

9 Database performance analysis

Inventor: GRAY JON (GB) **Applicant:** COGITO LTD (GB)

EC: **IPC:** ***G06F17/30***; **G06F17/30**

Publication info: **GB2425625** - 2006-11-01

10 **SYSTEM AND METHOD FOR DESIGNING VEHICLE WIRING HARNESS BY USING DATABASE**

Inventor: KIM DAE SEONG (KR)

Applicant: HYUNDAI MOTOR CO LTD (KR)

EC:

IPC: ***G06F17/50***; **G06F17/50**; (IPC1-7): G06F17/50

Publication info: **KR20030081675** - 2003-10-22

RESULT LIST
11 results found in the Worldwide database for:
query in the title AND **optimizing and tables** in the title or abstract
(Results are sorted by date of upload in database)

1 **Optimizing database queries using query execution plans derived from automatic summary table determining cost based queries**
Inventor: LEUNG TING YU (US); SIMMEN DAVID E (US); (+1) **Applicant:** IBM (US)
EC: **IPC:** ***G06F17/30***; **G06F17/30**
Publication info: **US7080062** - 2006-07-18

2 **Optimizing execution of a database query by using the partitioning schema of a partitioned object to select a subset of partitions from another partitioned object**
Inventor: SHANKAR SHRIKANTH (US); SHUKLA VIKRAM (US) **Applicant:**
EC: **IPC:** ***G06F7/00***; **G06F7/00**; (IPC1-7): G06F7/00
Publication info: **US2005251511** - 2005-11-10

3 **OPTIMIZING DATABASE QUERY PERFORMANCE BY DERIVING QUERY PREDICATES**
Inventor: MALKEMUS TIMOTHY RAY (US); KOO FRED (CA) **Applicant:** IBM (US)
EC: G06F17/30S4P3T2 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **CA2416368** - 2003-10-16

4 **Matching groupings, re-aggregation avoidance and comprehensive aggregate function derivation rules in query rewrites using materialized views**
Inventor: ZHANG GUOGEN (US); LI RUIPING (US); (+2) **Applicant:** IBM (US)
EC: G06F17/30S4P3T3; G06F17/30S1R; (+1) **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30 (+1)
Publication info: **US2004122814** - 2004-06-24

5 **Optimizing correlated queries using automatic summary tables**
Inventor: ZAHARIOUDAKIS MARKOS (US); PIRAHESH MIR HAMID (US); (+3) **Applicant:** IBM (US)
EC: G06F17/30S4P3T3 **IPC:** ***G06F7/00; G06F17/30***; **G06F7/00** (+2)
Publication info: **US2003088558** - 2003-05-08

6 **Systems and methods for providing structured query language optimization**
Inventor: TOW DANIEL S (US) **Applicant:**
EC: G06F17/30G3; G06F17/30S1R **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30 (+1)
Publication info: **US2004064441** - 2004-04-01

7 **Optimizing a query using a non-covering join index**
Inventor: AU GRACE KWAN-ON (US); GHAZAL AHMAD SAID (US); (+1) **Applicant:** NCR CORP (US)
EC: G06F17/30S4P3T5S; G06F17/30S4P3T2 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6643636** - 2003-11-04

8 **Parallel query optimization strategies for replicated and partitioned tables**
Inventor: LEUNG TING YU (US); PIRAHESH MIR HAMID (US); (+2) **Applicant:** IBM (US)
EC: G06F17/30N; G06F17/30S1R **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6625593** - 2003-09-23

9 **Query optimization by transparently altering properties of relational**

tables using materialized views

Inventor: COCHRANE ROBERTA JO (US); LAPIS GEORGE (US); (+6)

Applicant: IBM (US)

EC: G06F17/30S8R; G06F17/30S4P3T3

IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30

Publication info: **US6339769** - 2002-01-15

10 **Optimizing table join ordering using graph theory prior to query optimization**

Inventor: GRAY JAMES E (US)

Applicant: BULL HN INFORMATION SYST (US)

EC: G06F17/30S4P3T6; G06F17/30S4P3T5J

IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30

Publication info: **US5758335** - 1998-05-26

RESULT LIST
11 results found in the Worldwide database for:
query in the title AND **optimizing and tables** in the title or abstract
(Results are sorted by date of upload in database)

11 **System, method, and program for extending a SQL compiler for handling control statements packaged with SQL query statements**

Inventor: CHOW JYH-HERNG (US); FUH YOU-CHIN GENE (US); (+2)

Applicant: IBM (US)

EC: G06F17/30S4F9P; G06F9/45A5; (+3)

IPC: ***G06F9/45; G06F17/30***; **G06F9/45** (+2)

Publication info: **US5875334** - 1999-02-23

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
7 results found in the Worldwide database for:
optimizing in the title AND **database and expressions** in the title or abstract
(Results are sorted by date of upload in database)

1 **METHOD AND SYSTEM FOR OPTIMIZING USER DATABASE QUERIES**
Inventor: RAMESH BHASHYAM (IN); WATZKE MICHAEL (US) **Applicant:**
EC: **IPC:** ***G06F17/30***; **G06F17/30**
Publication info: **US2007067262** - 2007-03-22

2 **SYSTEM AND METHOD FOR OPTIMIZING ROW LEVEL DATABASE SECURITY**
Inventor: CHANDER GIRSH; HAMILTON JAMES R; (+3) **Applicant:** MICROSOFT CORP
EC: G06F21/00N9A2D **IPC:** ***G06F21/24; G06F17/30; G06F21/00*** (+4)
Publication info: **JP2005228312** - 2005-08-25

3 **Optimizing correlated queries using automatic summary tables**
Inventor: ZAHARIOUDAKIS MARKOS (US); PIRAHESH MIR HAMID (US); (+3) **Applicant:** IBM (US)
EC: G06F17/30S4P3T3 **IPC:** ***G06F7/00; G06F17/30***; **G06F7/00** (+2)
Publication info: **US2003088558** - 2003-05-08

4 **Method of simplifying and optimizing scalar subqueries and derived tables that return exactly or at most one tuple**
Inventor: LEUNG TING YU (US); URATA MONICA SACHIYE (US); (+1) **Applicant:** IBM (US)
EC: G06F17/30S4P3T1 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6826562** - 2004-11-30

5 **SYSTEM AND METHOD FOR OPTIMIZING DATABASE QUERIES**
Inventor: CELIS PEDRO; SHAK DIANA; (+2) **Applicant:** TANDEM COMPUTERS INC (US)
EC: G06F17/30S4P3T5 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **WO9826360** - 1998-06-18

6 **System and method for optimizing database queries with improved performance enhancements**
Inventor: CELIS PEDRO (US); SHAK DIANA (US); (+2) **Applicant:** TANDEM COMPUTERS INC (US)
EC: G06F17/30S4P3T5 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6021405** - 2000-02-01

7 **Computer automated system and method for optimizing the processing of a query in a relational database system by merging subqueries with the query**
Inventor: CHENG JOSEPHINE M-K (US); FINKELSTEIN SHELDON J (US); (+3) **Applicant:** IBM (US)
EC: G06F17/30S4P3T1; G06F17/30S4P3T5J **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F15/403
Publication info: **US5367675** - 1994-11-22

RESULT LIST
3 results found in the Worldwide database for:
tables and query in the title AND **optimizing** in the title or abstract
(Results are sorted by date of upload in database)

1 **Optimizing correlated queries using automatic summary tables**
Inventor: ZAHARIOUDAKIS MARKOS (US); PIRAHESH MIR HAMID (US); (+3)
Applicant: IBM (US)
EC: G06F17/30S4P3T3
IPC: ***G06F7/00; G06F17/30***; **G06F7/00** (+2)
Publication info: **US2003088558** - 2003-05-08

2 **Parallel query optimization strategies for replicated and partitioned tables**
Inventor: LEUNG TING YU (US); PIRAHESH MIR HAMID (US); (+2)
Applicant: IBM (US)
EC: G06F17/30N; G06F17/30S1R
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6625593** - 2003-09-23

3 **Query optimization by transparently altering properties of relational tables using materialized views**
Inventor: COCHRANE ROBERTA JO (US); LAPIS GEORGE (US); (+6)
Applicant: IBM (US)
EC: G06F17/30S8R; G06F17/30S4P3T3
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6339769** - 2002-01-15

RESULT LIST
11 results found in the Worldwide database for:
sql in the title AND **optimizing** in the title or abstract
(Results are sorted by date of upload in database)

1 **Method of optimizing SQL queries where a predicate matches nullable operands**
Inventor: LEUNG TING YU (US); TRUONG TUONG CHANH (US) **Applicant:** IBM (US)
EC: **IPC:** ***G06F7/00***; **G06F7/00**
Publication info: **US6996557** - 2006-02-07

2 **Dynamic selection of optimal grouping sequence at runtime for grouping sets, rollup and cube operations in SQL query processing**
Inventor: ZHANG GUOGEN (US); LIN FEN-LING (US); (+4) **Applicant:** IBM (US)
EC: G06F17/30S4P3T2 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2005027690** - 2005-02-03

3 **Optimization of SQL queries using filtering predicates**
Inventor: BEAVIN THOMAS A (US); MALONE PATRICK M (US); (+2) **Applicant:**
EC: G06F17/30S4P3T2 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US2002069193** - 2002-06-06

4 **A method for identifying key information for optimizing an SQL query**
Inventor: BHARGAVA GAUTAM (US); GOEL PIYUSH (US); (+1) **Applicant:** IBM (US)
EC: G06F17/30S4P3T2; G06F17/30S4P3T5 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US5890148** - 1999-03-30

5 **Optimization of SQL queries involving aggregate expressions using a plurality of local and global aggregation operations**
Inventor: RAMESH BHASHYAM (US); KRAUS TIMOTHY BRENT (US); (+1) **Applicant:** NCR CORP (US)
EC: G06F17/30S4P3P; G06F17/30S4P4P1A **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US5884299** - 1999-03-16

6 **System, method, and program for extending a SQL compiler for handling control statements packaged with SQL query statements**
Inventor: CHOW JYH-HERNG (US); FUH YOU-CHIN GENE (US); (+2) **Applicant:** IBM (US)
EC: G06F17/30S4F9P; G06F9/45A5; (+3) **IPC:** ***G06F9/45; G06F17/30***; **G06F9/45** (+2)
Publication info: **US5875334** - 1999-02-23

7 **Optimization of SQL queries using hash star join operations**
Inventor: PEDERSON DONALD RAYMOND (US); KOSTAMAA OLLI PEKKA (US) **Applicant:** NCR CORP (US)
EC: G06F17/30S8M; G06F17/30S4P3P; (+1) **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US5864842** - 1999-01-26

8 **Optimization of SQL queries using early-out join transformations of column-bound relational tables**
Inventor: PIRAHESH MIR H (US); LEUNG TING Y (US); (+3) **Applicant:** IBM (US)
EC: G06F17/30S4P3T2 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US5548758** - 1996-08-20

9 **Computer program product for enabling a computer to generate uniqueness information for optimizing an SQL query**
Inventor: BHARGAVA GAUTAM (US); GOEL PIYUSH (US); (+1) **Applicant:** IBM (US)

EC: G06F17/30S4P3T IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30

Publication info: **US5696960** - 1997-12-09

10 **System for optimizing correlated SQL queries in a relational database using magic decorrelation**

Inventor: LEUNG TING Y (US); PIRAHESH MIR H (US); (+1) **Applicant:** IBM (US)

EC: G06F17/30S4P3T5; G06F17/30S4P3T6 IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30

Publication info: **US5548755** - 1996-08-20

RESULT LIST
11 results found in the Worldwide database for:
sql in the title AND **optimizing** in the title or abstract
(Results are sorted by date of upload in database)

11 **Optimization of SQL queries using universal quantifiers, set intersection, and max/min aggregation in the presence of nullable columns**

Inventor: LEUNG TING Y (US); PIRAHESH MIR H (US); (+2) **Applicant:** IBM (US)

EC: G06F17/30S4P3T2; G06F17/30S4P3T5 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30

Publication info: **US5590324** - 1996-12-31

RESULT LIST
4 results found in the Worldwide database for:
statistics and query in the title AND **tables** in the title or abstract
(Results are sorted by date of upload in database)

1 **Generating statistics for temporary tables during query optimization**
Inventor: DRIESCH ROBERT D JR (US); EDWARDS JOHN F (US); (+2)
Applicant: IBM (US)
EC: G06F17/30S8R; G06F17/30S4P3T5S
IPC: ***G06F17/30***; **G06F17/30**
Publication info: **US2007043697** - 2007-02-22

2 **Using data in materialized query tables as a source for query optimization statistics**
Inventor: SIMMEN DAVID E (US)
Applicant: IBM
EC: G06F17/30S4P3T5
IPC: ***G06F17/30; G06F7/00***; **G06F7/00** (+1)
Publication info: **US2006036576** - 2006-02-16

3 **Method and apparatus for using conditional selectivity as foundation for exploiting statistics on query expressions**
Inventor: BRUNO NICOLAS (US); CHAUDHURI SURAJIT (US)
Applicant: MICROSOFT CORP (US)
EC: G06F17/30S4P3T5S; G06F17/30S4P8A
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2005004907** - 2005-01-06

4 **Method and apparatus for generating statistics on query expressions for optimization**
Inventor: CHAUDHURI SURAJIT (US); BRUNO NICOLAS (US)
Applicant: MICROSOFT CORP (US)
EC:
IPC: ***G06F17/00***; **G06F17/00**; (IPC1-7): G06F17/00
Publication info: **US2004236762** - 2004-11-25

RESULT LIST
3 results found in the Worldwide database for:
sql in the title AND **statistics** in the title or abstract
(Results are sorted by date of upload in database)

1 **Adaptive database buffer memory management using dynamic SQL statement cache statistics**

Inventor: GORDON MARK R (US)

Applicant: IBM (US)

EC: G06F17/30H

IPC: ***G06F17/30***; **G06F17/30**

Publication info: **US2006074872** - 2006-04-06

2 **High load SQL driven statistics collection**

Inventor: DAGEVILLE BENOIT (US); ZIAUDDIN MOHAMED (US); (+2)

Applicant: ORACLE INT CORP (US)

EC:

IPC: ***G06F17/00***; **G06F17/00**; (IPC1-7): G06F17/00

Publication info: **US2005138015** - 2005-06-23

3 **Auto-tuning SQL statements**

Inventor: ZIAUDDIN MOHAMED (US); DAGEVILLE BENOIT (US); (+2)

Applicant: ORACLE INT CORP (US)

EC:

IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30

Publication info: **US2005120000** - 2005-06-02

RESULT LIST
10 results found in the Worldwide database for:
expressions in the title AND **optimizing** in the title or abstract
(Results are sorted by date of upload in database)

1 **Optimizing XSLT based on input XML document structure description and translating XSLT into equivalent XQuery expressions**
Inventor: LIU ZHEN H (US); KRISHNAPRASAD MURALIDHAR (US); (+1)
Applicant:
EC: G06F17/22T2; G06F17/22M
IPC: ***G06F17/00; G06F17/30***; **G06F17/00** (+1)
Publication info: **US2006242563** - 2006-10-26

2 **ANALYZING INDUCTIVE EXPRESSIONS IN A MULTI-LANGUAGE OPTIMIZING COMPILER**
Inventor: BLICKSEIN DAVID SCOTT (US); DAVIDSON CAROLINE SWEENY (US); (+4)
Applicant: DIGITAL EQUIPMENT CORP (US)
EC: G06F9/45C1; G06F9/45C3T; (+2)
IPC: ***G06F9/45***; **G06F9/45**; (IPC1-7): G06F9/45
Publication info: **KR960003138B** - 1996-03-05

3 **System and method for optimizing polynomial expressions in a processing environment**
Inventor: FALLAH FARZAN (US)
Applicant: FUJITSU LTD
EC:
IPC: ***G06F7/38***; **G06F7/38**
Publication info: **US2006075011** - 2006-04-06

4 **System and method for optimizing queries on views defined by conditional expressions having mutually exclusive conditions**
Inventor: FINLAY IAN RICHARD (CA); ZUZARTE CALISTO PAUL (CA)
Applicant: IBM (US)
EC: G06F17/30S4P3T1; G06F17/30S4P3T2
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US2004220896** - 2004-11-04

5 **METHOD AND SYSTEM FOR INTERACTIVE BUILDING AND OPTIMIZATION OF SEARCH EXPRESSIONS**
Inventor: BREIVIK JARLE (NO)
Applicant: E PEDERSEN & SOENN AS (NO); BREIVIK JARLE (NO)
EC: G06F17/30W3; G06F17/30Z2F1
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **WO0241185** - 2002-05-23

6 **Optimization of SQL queries involving aggregate expressions using a plurality of local and global aggregation operations**
Inventor: RAMESH BHASHYAM (US); KRAUS TIMOTHY BRENT (US); (+1)
Applicant: NCR CORP (US)
EC: G06F17/30S4P3P; G06F17/30S4P4P1A
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US5884299** - 1999-03-16

7 **Compiler optimizer that moves loop invariant expressions**
Inventor: HIRAI SHINJI (JP)
Applicant: NIPPON ELECTRIC CO (JP)
EC: G06F9/45E3
IPC: ***G06F9/45***; **G06F9/45**; (IPC1-7): G06F9/45
Publication info: **US5862384** - 1999-01-19

8 **Analyzing inductive expressions in a multilanguage optimizing compiler**
Inventor: BLICKSTEIN DAVID S (US)
Applicant: DIGITAL EQUIPMENT CORP (US)
EC: G06F9/45C1; G06F9/45E3; (+1)
IPC: ***G06F9/45***; **G06F9/45**; (IPC1-7): G06F9/45
Publication info: **US5577253** - 1996-11-19

9 **Compiling apparatus having a function to analyze overlaps of memory addresses of two or more data expressions and a compiling method**
Inventor: HAYASHI MASAKAZU (JP); NAKAHIRA TADASHI (JP)
Applicant: FUJITSU LTD (JP)
EC: G06F9/45C1A
IPC: ***G06F9/45***; **G06F9/45**; (IPC1-7): G06F9/44

Publication info: **US5581762** - 1996-12-03

10 COMPILING COMPUTER CODE: OPTIMIZING INTERMEDIATE LANGUAGE FLOW GRAPH USING ROUTINE TO FOLD CONSTANT EXPRESSIONS

Inventor: FAIMAN ROBERT NEIL

Applicant: DIGITAL EQUIPMENT CORP

EC: G06F9/45C1; G06F9/45E3; (+1)

IPC: ***G06F9/45***; **G06F9/45**; (IPC1-7): G06F9/45

Publication info: **NZ241694** - 1994-11-25

RESULT LIST
6 results found in the Worldwide database for:
statistics in the title AND **database and tables** in the title or abstract
(Results are sorted by date of upload in database)

1 **Generating statistics for temporary tables during query optimization**
Inventor: DRIESCH ROBERT D JR (US); EDWARDS JOHN F (US); (+2)
Applicant: IBM (US)
EC: G06F17/30S8R; G06F17/30S4P3T5S
IPC: ***G06F17/30***; **G06F17/30**
Publication info: **US2007043697** - 2007-02-22

2 **Method, system, and program for collecting statistics of data stored in a database**
Inventor: LIGHTSTONE SAM S (CA); POPIVANOV IVAN (CA); (+1)
Applicant: IBM (US)
EC: G06F17/30B
IPC: ***G06F17/30***; **G06F17/30**
Publication info: **US2006112093** - 2006-05-25

3 **System and method for externally providing database optimizer statistics**
Inventor: SAUERMANN VOLKER (DE)
Applicant:
EC: G06F17/30S8R; G06F17/30B
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US2005262158** - 2005-11-24

4 **System and method for gathering and analyzing database performance statistics**
Inventor: MAROKHOVSKY SERGE G (US); CHEN SHUZI (US); (+2)
Applicant: EMC CORP (US)
EC:
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6804627** - 2004-10-12

5 **System and method for real time statistics collection for use in the automatic management of a database system**
Inventor: BONNER CHARLES ROY (US); HRLE NAMIK (DE); (+1)
Applicant: IBM (US)
EC: G06F17/30B
IPC: ***G06F7/00; G06F17/30***; **G06F7/00** (+2)
Publication info: **US2004034643** - 2004-02-19

6 **Method for extracting statistical profiles, use of the statistics created by the method.**
Inventor: ANDRES FREDERIC (FR)
Applicant: BULL SA (FR)
EC: G06F17/30S4P8A; G06F11/34M
IPC: ***G06F11/34; G06F12/00; G06F17/30*** (+4)
Publication info: **EP0599707** - 1994-06-01
